<N30/09/2003Page 1 16:36 <golam sham <mm/dd/yyyy

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1626gms

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

| | | |
|---|---|---|
| NEWS 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS 2 | | "Ask CAS" for self-help around the clock |
| NEWS 3 | SEP 09 | CA/CAplus records now contain indexing from 1907 to the present |
| NEWS 4 | Jul 15 | Data from 1960-1976 added to RDISCLOSURE |
| NEWS 5 | Jul 21 | Identification of STN records implemented |
| NEWS 6 | Jul 21 | Polymer class term count added to REGISTRY |
| NEWS 7 | Jul 22 | INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available |
| NEWS 8 | AUG 05 | New pricing for EUROPATFULL and PCTFULL effective August 1, 2003 |
| NEWS 9 | AUG 13 | Field Availability (/FA) field enhanced in BEILSTEIN |
| NEWS 10 | AUG 15 | PATDPAFULL: one FREE connect hour, per account, in September 2003 |
| NEWS 11 | AUG 15 | PCTGEN: one FREE connect hour, per account, in September 2003 |
| NEWS 12 | AUG 15 | RDISCLOSURE: one FREE connect hour, per account, in September 2003 |
| NEWS 13 | AUG 15 | TEMA: one FREE connect hour, per account, in September 2003 |
| NEWS 14 | AUG 18 | Data available for download as a PDF in RDISCLOSURE |
| NEWS 15 | AUG 18 | Simultaneous left and right truncation added to PASCAL |
| NEWS 16 | AUG 18 | FROSTI and KOSMET enhanced with Simultaneous Left and Righ Truncation |
| NEWS 17 | AUG 18 | Simultaneous left and right truncation added to ANABSTR |
| NEWS 18 | SEP 22 | DIPPR file reloaded |
| NEWS 19 | SEP 25 | INPADOC: Legal Status data to be reloaded |
| NEWS 20 | SEP 29 | DISSABS now available on STN |

| | |
|---|---|
| NEWS EXPRESS | April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003 |
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | General Internet Information |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS PHONE | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | CAS World Wide Web Site (general information) |

Enter NEWS followed by the item number or name to see news on that specific topic.

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<N30/09/2003Page 2 16:36 <golam sham <mm/dd/yyyy

of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:22:21 ON 30 SEP 2003

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 16:22:37 ON 30 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 SEP 2003 HIGHEST RN 594810-89-6
DICTIONARY FILE UPDATES: 28 SEP 2003 HIGHEST RN 594810-89-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

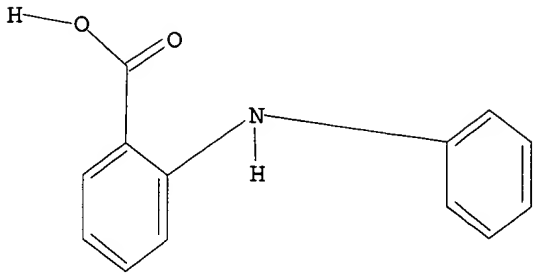
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09889106.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

<N30/09/2003Page 3 16:36 <golam shameemm/dd/yyyy



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 16:23:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 223 TO ITERATE

100.0% PROCESSED 223 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3565 TO 5355
PROJECTED ANSWERS: 1606 TO 2874

L2 50 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 16:23:10 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4640 TO ITERATE

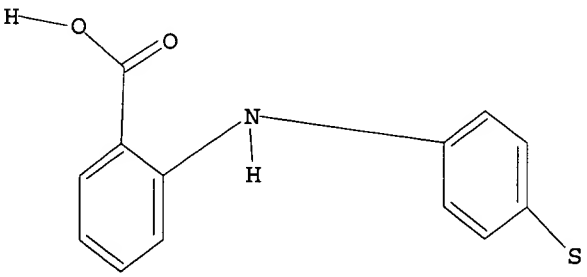
100.0% PROCESSED 4640 ITERATIONS 2331 ANSWERS
SEARCH TIME: 00.00.01

L3 2331 SEA SSS FUL L1

=>
Uploading 09889106a.str

L4 STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4 STR



09889106

<N30/09/2003Page 4 16:36 <golam sham <mm/dd/yyyy

Structure attributes must be viewed using STN Express query preparation.

=> s l4
SAMPLE SEARCH INITIATED 16:24:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 24 TO ITERATE

100.0% PROCESSED 24 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 187 TO 773
PROJECTED ANSWERS: 3 TO 163

L5 3 SEA SSS SAM L4

=> s l4 sss full
FULL SEARCH INITIATED 16:24:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 359 TO ITERATE

100.0% PROCESSED 359 ITERATIONS 51 ANSWERS
SEARCH TIME: 00.00.01

L6 51 SEA SSS FUL L4

=> FIL CAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 297.10 297.31

FILE 'CAPLUS' ENTERED AT 16:24:49 ON 30 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE COVERS 1907 - 30 Sep 2003 VOL 139 ISS 14
FILE LAST UPDATED: 29 Sep 2003 (20030929/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l6
L7 44 L6

=> FIL REGISTRY

09889106

<N30/09/2003Page 5 16:36 <golam sham <mm/dd/yyyy

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 1.25 | 298.56 |

FILE 'REGISTRY' ENTERED AT 16:26:29 ON 30 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 SEP 2003 HIGHEST RN 594810-89-6
DICTIONARY FILE UPDATES: 28 SEP 2003 HIGHEST RN 594810-89-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

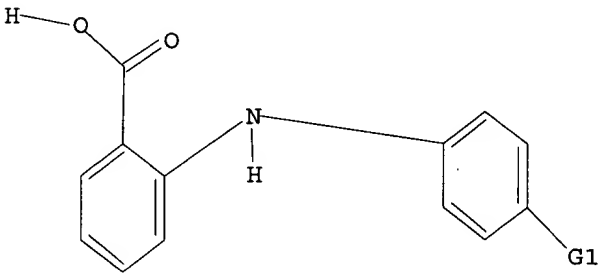
=>
Uploading 09889106a.str

L8 STRUCTURE UPLOADED

=>
Uploading 09889106a.str

L9 STRUCTURE UPLOADED

=> d l9
L9 HAS NO ANSWERS
L9 STR




G1 Ak,S

Structure attributes must be viewed using STN Express query preparation.

=> s l9

09889106

<N30/09/2003Page 6 16:36 <golam sham <mm/dd/yyyy

SAMPLE SEARCH INITIATED 16:31:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 223 TO ITERATE

100.0% PROCESSED 223 ITERATIONS 21 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3565 TO 5355
PROJECTED ANSWERS: 146 TO 694

L10 21 SEA SSS SAM L9

=> s l9 sss full
FULL SEARCH INITIATED 16:31:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4640 TO ITERATE

100.0% PROCESSED 4640 ITERATIONS 444 ANSWERS
SEARCH TIME: 00.00.01

L11 444 SEA SSS FUL L9

=> FIL CAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 150.95 449.51

FILE 'CAPLUS' ENTERED AT 16:31:21 ON 30 SEP 2003
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FILE COVERS 1907 - 30 Sep 2003 VOL 139 ISS 14
FILE LAST UPDATED: 29 Sep 2003 (20030929/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l11
L12 323 L11

=> d his

(FILE 'HOME' ENTERED AT 16:22:21 ON 30 SEP 2003)

FILE 'REGISTRY' ENTERED AT 16:22:37 ON 30 SEP 2003
L1 STRUCTURE UPLOADED
L2 50 S L1

<N30/09/2003Page 7 16:36 <golam sham <mm/dd/yyyy

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L3          2331 S L1 SSS FULL
L4               STRUCTURE UPLOADED
L5             3 S L4
L6            51 S L4 SSS FULL

     FILE 'CAPLUS' ENTERED AT 16:24:49 ON 30 SEP 2003
L7            44 S L6

     FILE 'REGISTRY' ENTERED AT 16:26:29 ON 30 SEP 2003
L8               STRUCTURE UPLOADED
L9               STRUCTURE UPLOADED
L10           21 S L9
L11          444 S L9 SSS FULL

     FILE 'CAPLUS' ENTERED AT 16:31:21 ON 30 SEP 2003
L12          323 S L11

=> s l12 and p/dt
       4188194 P/DT
L13          140 L12 AND P/DT

=> s l13 and us/pc
       1220102 US/PC
L14           71 L13 AND US/PC

=> s l14 and py<=1999
      19719660 PY<=1999
L15           56 L14 AND PY<=1999

=> d l15 ibib abs hitstr tot1-20
'TOT1-20' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, IPC, and NCL

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels
```

<N30/09/2003Page 8 16:36 <golam sham <mm/dd/yyyy

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d l15 ibib abs hitstr tot

L15 ANSWER 1 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:140618 CAPLUS
DOCUMENT NUMBER: 132:182031
TITLE: Microwave syntheses of quinacridones, 6,13-dihydroquinacridones, and 6,13-quinacridonequinones
INVENTOR(S): Badejo, Ibraheem T.
PATENT ASSIGNEE(S): Bayer Corporation, USA
SOURCE: U.S., 7 pp., Cont.-in-part of U.S. Ser. No. 933,459, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 6031100 | A | 20000229 | US 1998-63128 | 19980420 <-- |
| EP 905199 | A2 | 19990331 | EP 1998-116840 | 19980907 <-- |
| EP 905199 | A3 | 19991027 | | |
| EP 905199 | B1 | 20020508 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 11172137 | A2 | 19990629 | JP 1998-274242 | 19980911 <-- |

<N30/09/2003Page 9 16:36 <golam sham <mm/dd/yyyy

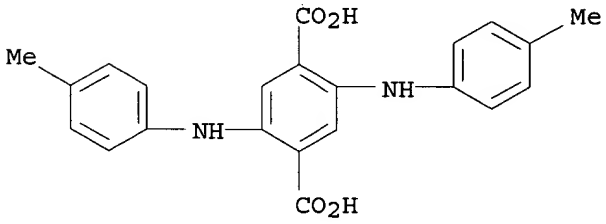
PRIORITY APPLN. INFO.: US 1997-933459 B2 19970918
US 1998-63128 A 19980420

AB Quinacridone pigments are prepd. by (a) exposing a reaction mixt. contg. (i) 1 part 2,5-dianilinoterephthalic acid (I), 2,5-dianilino-3,6-dihydroterephthalic acid, 2,5-dianilino-3,6-dioxo-1,4-cyclohexadiene-1,4-dicarboxylic acid (II), and/or derivs. thereof, (ii) 3-20 parts of a dehydrating agent, and (iii) 0-20 parts of a pigment additive to microwave radiation under conditions that raise the bulk temp. of the reaction mixt. to .ltorsim.250.degree., with the proviso that if component i is a 2,5-dianilino-3,6-dihydroterephthalic acid or deriv. thereof, reaction step a addnl. comprises an oxidn. step; (b) drowning the reaction mixt. in .apprx.3-15 parts of a liq. in which the quinacridone pigment is substantially insol.; (c) isolating the quinacridone pigment; and (d) optionally conditioning the pigment. Thus, a stirred soln. of 30 g I and 20 g II in 300 g polyphosphoric acid at 80.degree. was irradiated in a microwave oven (2450 MHz, 800 W) for 2.5 min, cooled to 150.degree., poured into 1.2 kg ice-water, filtered and washed to give 42.6 g of a solid soln. of quinacridone and 6,13-quinacridonequinone.

IT **10291-28-8**, 2,5-Di-p-toluidinoterephthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(quinacridone pigment manuf. by use of microwave radiation)

RN 10291-28-8 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



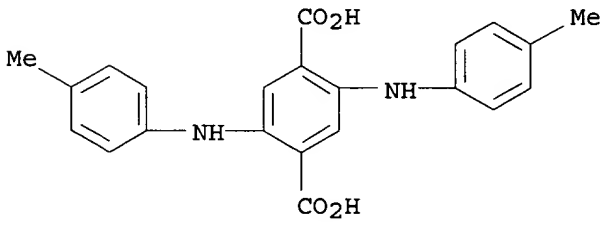

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1999:708479 CAPLUS
DOCUMENT NUMBER: 131:338304
TITLE: Pigment derivatives, pigment compositions, and waterborne coatings containing them
INVENTOR(S): Badejo, Ibraheem T.; Rice, Daphne J.
PATENT ASSIGNEE(S): Bayer Corporation, USA
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 953609 | A2 | 19991103 | EP 1999-107727 | 19990419 <-- |
| EP 953609 | A3 | 20000223 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| US 6066203 | A | 20000523 | US 1998-70970 | 19980501 <-- |

<N30/09/2003Page 10 16:36 <golam sha <mm/dd/yyyy

MX 9904000 A 20000831 MX 1999-4000 19990429
PRIORITY APPLN. INFO.: US 1998-70970 A 19980501
OTHER SOURCE(S): MARPAT 131:338304
AB The pigment derivs. have the formula Q[XNHZN[(CH2)nOH](CH2)pOH]m [I; Q is an org. pigment moiety; X = SO2, CO; Z = (un)substituted C2-8 alkylene; m = 1-4; n, p = 2-6]. Pigments (esp. quinacridones) are modified with the pigment derivs. either during or after synthesis. Thus, crude quinacridone was added to a mixt. of ClSO3H and SOCl2 during 30 min at <20.degree., and the product was amidated with H2N(CH2)3N(CH2CH2OH)2 to give a I with m = 1. 2,9-Dimethylquinacridone was prepd. by cyclization of 2,5-bis(p-toluidino)terephthalic acid (II) in polyphosphoric acid contg. 10% I (based on II) to give a magenta pigment compn. which produced water-based paints with a brighter and bluer tint than obtained with pigment produced by cyclization of II in the absence of the I.
IT **10291-28-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of quinacridone pigments in presence of quinacridonesulfonamide modifiers)
RN 10291-28-8 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 3 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1999:219847 CAPLUS
DOCUMENT NUMBER: 130:253670
TITLE: Microwave syntheses of quinacridones, 6,13-dihydroquinacridones and 6,13-quinacridonequinones at moderate temperatures
INVENTOR(S): Badejo, Ibraheem T.
PATENT ASSIGNEE(S): Bayer Corporation, USA
SOURCE: Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| EP 905199 | A2 | 19990331 | EP 1998-116840 | 19980907 <-- |
| EP 905199 | A3 | 19991027 | | |
| EP 905199 | B1 | 20020508 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| US 6031100 | A | 20000229 | US 1998-63128 | 19980420 <-- |

PRIORITY APPLN. INFO.: US 1997-933459 A 19970918
US 1998-63128 A 19980420
AB Quinacridone pigments are prepd. by (a) exposing a reaction mixt. contg.

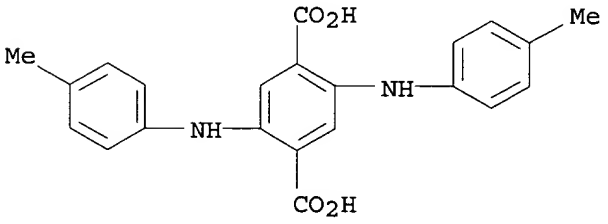
<N30/09/2003Page 11 16:36 <golam sha <mm/dd/yyyy

(i) 2,5-dianilinoterephthalic acid, 2,5-dianilino-3,6-dihydroterephthalic acid, 2,5-dianilino-3,6-dioxo-1,4-cyclohexadiene-1,4-dicarboxylic acid, and/or derivs. thereof, (ii) about 3-20 parts per part of component (a)(i) of a dehydrating agent, and (iii) 0-20 parts per part of component (a)(i) of a pigment additive, to microwave radiation under conditions that raise the bulk temp. of the reaction mixt. to .ltoreq.250.degree.; (b) drowning the reaction mixt. in about 3-15 parts per part of component (a)(i), of a liq. in which the quinacridone pigment is substantially insol.; (c) isolating the quinacridone pigment; and (d) optionally, conditioning the pigment. The process includes an addnl. oxidn. step if component (a)(i) is a 2,5-dianilino-3,6-dihydroterephthalic acid or a deriv. thereof. The pigments have higher purity and better coloring properties than pigments made by the thermal process. Thus, 300.0 g polyphosphoric acid (118%) were added in portions at 80.degree. to 30.0 g of 2,5-bis(phenylamino)terephthalic acid and 20.0 g of 2,5-dianilino-3,6-dioxo-1,4-cyclohexadiene-1,4-dicarboxylic acid and the stirred mixt. was irradiated in a microwave oven for 2.5 min, the reaction mixt. was cooled to 150.degree. and drowned in 1.2 kg of ice/water, the suspension was stirred, and the solid component was collected by filtration and washed with 8.0 L of water to yield a press-cake having a solid soln. pigment content of 42.6 g.

IT **10291-28-8**, 2,5-Bis(p-toluidino)terephthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of; in microwave syntheses of quinacridones, dihydroquinacridones and quinacridonequinones)

RN 10291-28-8 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 4 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1999:166860 CAPLUS
DOCUMENT NUMBER: 130:210799
TITLE: Organic pigment compositions
INVENTOR(S): Badejo, Ibraheem T.; Rice, Daphne J.
PATENT ASSIGNEE(S): Bayer Corp., USA
SOURCE: Ger. Offen., 11 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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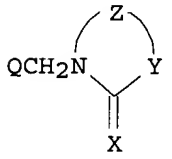
| DE 19838142 | A1 | 19990304 | DE 1998-19838142 | 19980821 <-- |
| US 5879444 | A | 19990309 | US 1997-923743 | 19970902 <-- |
| CA 2245318 | AA | 19990302 | CA 1998-2245318 | 19980819 <-- |
| GB 2329184 | A1 | 19990317 | GB 1998-19014 | 19980901 <-- |

<N30/09/2003Page 12 16:36 <golam sha <mm/dd/yyyy

GB 2329184 B2 20010905
PRIORITY APPLN. INFO.: US 1997-923743 A 19970902
OTHER SOURCE(S): MARPAT 130:210799
GI



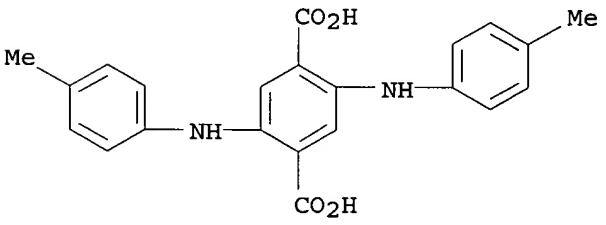
I

AB The compns. contain an org. pigment and 0.1-20 wt.% of an org. pigment deriv. to improve the rheol. properties and dispersibility, where the deriv. has the structure I [Q = chromophore residue; X = O, S, NR1; Y = O, NR2, direct link; Z completes a 4- to 7-membered heterocyclic ring which may be substituted and/or annelated; R1 = H, C1-6 alkyl, C7-16 aralkyl, CN; R2 = C1-6 alkyl, C5-7 cycloalkyl, C7-16 aralkyl, C6-10 aryl] with certain addnl. restrictions. Thus, 2,9-dimethylquinacridone, prepd. by cyclization of 2,5-bis(4-methylanilino)terephthalic acid in polyphosphoric acid at 123.degree., was mixed with 10% [(1-methyl-2,4-imidazolidinedion-3-yl)methyl]quinacridone to reduce the viscosity of its aq. dispersion.

IT **10291-28-8**, 2,5-Bis(4-methylanilino)terephthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation of)

RN 10291-28-8 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



L15 ANSWER 5 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1999:111767 CAPLUS
DOCUMENT NUMBER: 130:169523
TITLE: Quinacridone mixed-crystal pigments, their preparation and use
INVENTOR(S): Urban, Manfred; Bohmer, Martin; Schnaitmann, Dieter
PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|

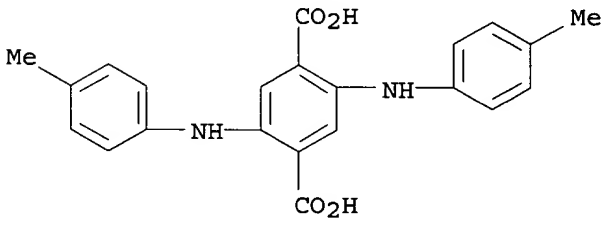
| | | | | |
|---|---|---|---|---|
| EP 896034 | A1 | 19990210 | EP 1998-113971 | 19980725 <-- |
| EP 896034 | B1 | 20020508 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| DE 19733642 | A1 | 19990211 | DE 1997-19733642 | 19970804 <-- |
| JP 11100521 | A2 | 19990413 | JP 1998-217902 | 19980731 <-- |
| US 5989333 | A | 19991123 | US 1998-127363 | 19980731 <-- |
| CN 1210123 | A | 19990310 | CN 1998-117860 | 19980803 <-- |
| CN 1088079 | B | 20020724 | | |

PRIORITY APPLN. INFO.: DE 1997-19733642 A 19970804
OTHER SOURCE(S): MARPAT 130:169523

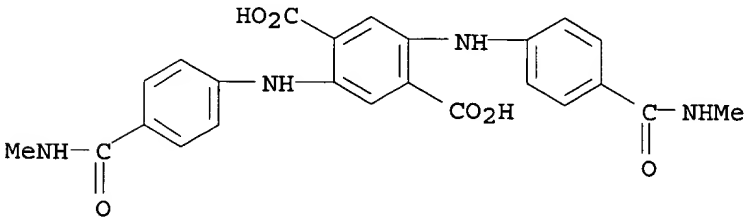
AB The pigments are mixts. of 85-99% unsubstituted .beta.-quinacridone and 1-15% of a sym. quinacridone bearing on each terminal benzene ring 1-2 substituents selected from Cl, Br, F, C1-4 alkyl, C1-4 alkoxy, and CONHR (R = H, C1-6 alkyl). Thus, a mixt. of 70.5 parts 2,5-dianilinoterephthalic acid and 7.8 parts 2,5-di-p-toluidinoterephthalic acid was cyclized by heating at 125.degree. in polyphosphoric acid, hydrolyzed in 30% H3PO4 at 140.degree., and cooled to give cocrystd. .beta.-quinacridone and 2,9-dimethylquinacridone as a red-violet pigment.

IT **10291-28-8**, 2,5-Di-p-toluidinoterephthalic acid **74539-52-9**, 2,5-Bis[4-(methylcarbamoyl)anilino]terephthalic acid **220381-05-5**, 2,5-Bis(3-chloro-4-methylanilino)terephthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization; prepn. of quinacridone mixed-crystal pigments)

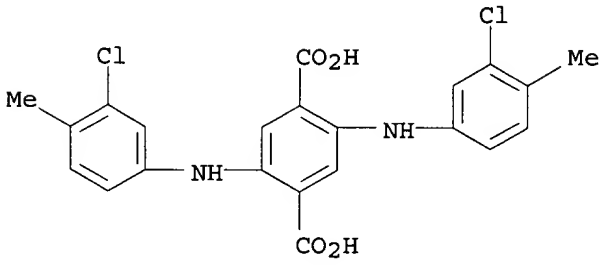
RN 10291-28-8 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




RN 74539-52-9 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-[(methylamino)carbonyl]phenyl]amino]- (9CI) (CA INDEX NAME)




RN 220381-05-5 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(3-chloro-4-methylphenyl)amino]- (9CI) (CA INDEX NAME)

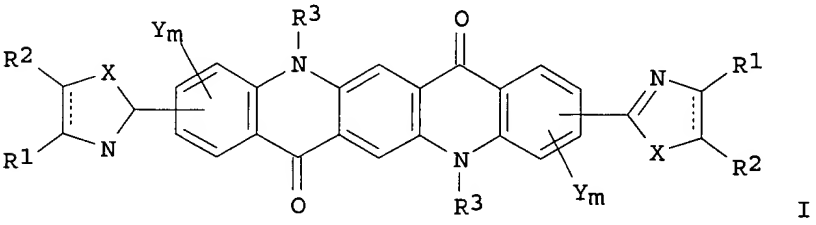


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 6 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1999:100756 CAPLUS
DOCUMENT NUMBER: 130:169524
TITLE: Heterocyclic-substituted quinacridone pigments, their preparation and their use in coatings and inks
INVENTOR(S): Badejo, Ibraheem T.; Franke, Guenter
PATENT ASSIGNEE(S): Bayer Corporation, USA
SOURCE: U.S., 11 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5868828 | A | 19990209 | US 1998-81849 | 19980520 <-- |
| EP 959106 | A1 | 19991124 | EP 1999-109405 | 19990511 <-- |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| MX 9904557 | A | 20000831 | MX 1999-4557 | 19990517 |

PRIORITY APPLN. INFO.: US 1998-81849 A 19980520
OTHER SOURCE(S): MARPAT 130:169524
GI



I

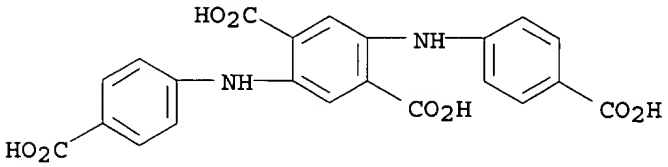
AB The quinacridone pigments (I; X = O, S, imino; R = H, C1-6-alkyl, C5-7-cycloalkyl, C7-16-aralkyl; Y = C1-6-alkyl, C1-6-alkoxy, halogen; R1, R2 = H, C1-6-alkyl, C5-7-cycloalkyl, C6-10-aryl, C7-16-aralkyl, nitrile, carboxyl, ester, amide, or R1R2 may form a C5-8-cycloaliph. ring or a fused-on arom. or heteroarom. ring; R3 = H, C1-6-alkyl; m = 0, 1, or 2) are obtained by cyclocondensation of quinacridonedicarboxylic acids with amines contg. R1, R2, and XH groups in the appropriate arrangement. The introduction of the heterocyclic substituents gives I colors not usually

attained with quinacridone pigments; I also have good stability in processing and application. Thus, 2,5-bis(4-carboxyanilino)terephthalic acid was obtained from di-Me succinylsuccinate and p-aminobenzoic acid and then cyclocondensed to give 2,9-quinacridonedicarboxylic acid; the diacid was then cyclocondensed with 2 mol 2-aminothiophenol or o-phenylenediamine to provide pigments.

IT **41339-16-6P**, 2,5-Bis(4-carboxyanilino)terephthalic acid
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(cyclocondensation; prepn. of heterocyclic-substituted quinacridone pigments for coatings)

RN 41339-16-6 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-carboxyphenyl)amino]- (9CI) (CA INDEX NAME)




REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 7 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:640306 CAPLUS
DOCUMENT NUMBER: 129:261735
TITLE: Water-soluble quinacridone dyes and their use
INVENTOR(S): Etzbach, Karl-Heinz; Kranz, Carolin; Sens, Rudiger
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| WO 9841582 | A1 | 19980924 | WO 1998-EP1353 | 19980309 | <-- |
| W: JP, US | | | | | |
| RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | | |
| DE 19711443 | A1 | 19980924 | DE 1997-19711443 | 19970319 | <-- |
| EP 970149 | A1 | 20000112 | EP 1998-913688 | 19980309 | |
| EP 970149 | B1 | 20020828 | | | |
| R: DE, FR, GB, SE, FI | | | | | |
| JP 2001518129 | T2 | 20011009 | JP 1998-540088 | 19980309 | |
| US 6152968 | A | 20001128 | US 1999-380615 | 19990917 | <-- |

PRIORITY APPLN. INFO.: DE 1997-19711443 A 19970319
WO 1998-EP1353 W 19980309
OTHER SOURCE(S): MARPAT 129:261735
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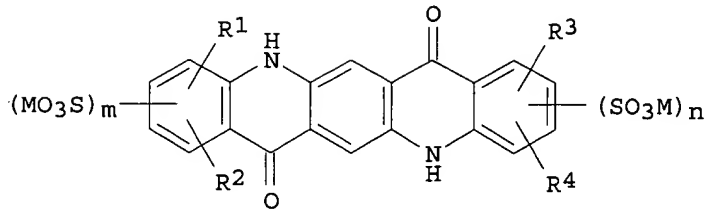


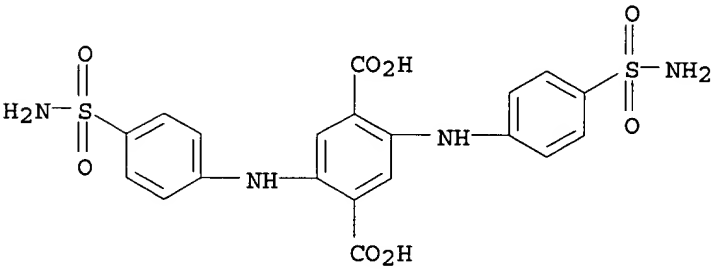
I

AB Water-sol. quinacridones (I; M = Li, K, Na, ammonium; R1, R2, R3, R4 = H, C1-8-alkyl, C1-8-alkoxy, carboxyl, C1-4-alkoxycarbonyl, sulfamoyl, mono- or di-(C1-4)-alkylsulfamoyl, carbamoyl, mono- or di-(C1-4)-alkylcarbamoyl, unsubstituted or substituted mono- or diphenylsulfamoyl, unsubstituted or substituted mono- or diphenylcarbamoyl, halogen, nitro or cyano; m, n = 0-2; sum n + m .gtoreq. 1) and their mixts. are used to dye and print natural and synthetic fiber materials. I may also be used in bulk dyeing of paper and in ink-jet inks and form stable colorant mixts. and wet-fast prints. In an example, 2,5-bis(4-sulfamoylanilino)terephthalic acid was cyclized to 2,9-quinacridonedisulfonic acid, which was obtained in the form of its diammonium salt (.lambda.max 502, 532 nm).

IT **207793-48-4**, 2,5-Bis(4-sulfamoylanilino)terephthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; water-sol. quinacridone dyes for paper and ink-jet inks)

RN 207793-48-4 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-(aminosulfonyl)phenyl]amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 8 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1998:550414 CAPLUS

DOCUMENT NUMBER: 129:175641

TITLE: Preparation of phenylbenzimidazoles as ligands for GABA receptors

INVENTOR(S): Harrison, Timothy; Sparey, Timothy Jason; Teall, Martin Richard

PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK

SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2

DOCUMENT TYPE: **Patent**

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

<N30/09/2003Page 17 16:36 <golam sha <mm/dd/yyyy

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| WO 9834923 | A1 | 19980813 | WO 1998-GB322 | 19980202 | <-- |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | | |
| RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | | |
| AU 9858744 | A1 | 19980826 | AU 1998-58744 | 19980202 | <-- |
| AU 733099 | B2 | 20010510 | | | |
| EP 968191 | A1 | 20000105 | EP 1998-902126 | 19980202 | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI | | | | | |
| JP 2001510480 | T2 | 20010731 | JP 1998-533983 | 19980202 | |
| US 6071909 | A | 20000606 | US 1999-341940 | 19990720 | <-- |

PRIORITY APPLN. INFO.: GB 1997-2524 A 19970207
WO 1998-GB322 W 19980202

OTHER SOURCE(S): MARPAT 129:175641

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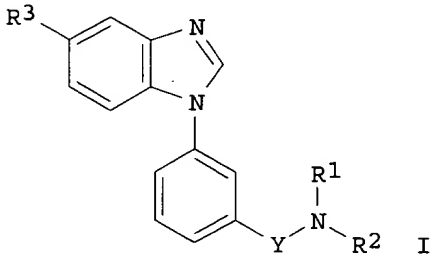



I

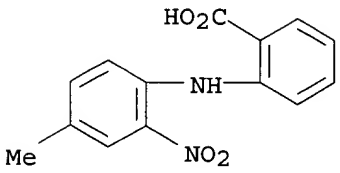
AB The title compds. [I; Y = CH2, C(O), C(S); R1, R2 = H, alkyl, heterocyclyl; NR1R2 = pyrrolidinyl, piperidynyl, morpholinyl, etc.; R3 = H, alkyl, halo, etc.], which are selective ligands for GABAA receptors, in particular having high affinity for its .alpha.2 and/or .alpha.3 subunit, and therefore are useful in the treatment and/or prevention of disorders of the central nervous system, including anxiety and convulsions, were prepd. Thus, reaction of 1-(3-carboxyphenyl)-5-methylbenzimidazole (prepn. described) with morpholine in the presence of 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide.HCl, hydroxybenzotriazole and Et3N in DMF afforded the title compd. I [Y = C(O); NR1R2 = morpholino; R3 = Me] which showed Ki of .ltoreq. 100 nM for displacement of [3H]-flumazenil from the .alpha.2 and/or .alpha.3 subunit of the human GABAA receptor.

IT **92149-45-6P 92245-44-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of phenylbenzimidazoles as ligands for GABA receptors)

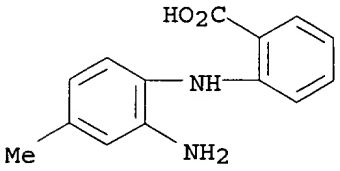
RN 92149-45-6 CAPLUS

CN Benzoic acid, 2-[(4-methyl-2-nitrophenyl)amino]- (9CI) (CA INDEX NAME)

<N30/09/2003Page 18 16:36 <golam sha <mm/dd/yyyy




RN 92245-44-8 CAPLUS
CN Benzoic acid, 2-[(2-amino-4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 9 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:527309 CAPLUS
DOCUMENT NUMBER: 129:148822
TITLE: Preparation and formulation of aminobenzophenones as inhibitors of interleukin and TNF
INVENTOR(S): Ottosen, Erik Rytter; Rachlin, Schneur
PATENT ASSIGNEE(S): Leo Pharmaceutical Products Ltd. A/S (Lovens Kemiske Fabrik Produktionsaktie, Den.
SOURCE: PCT Int. Appl., 81 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9832730 | A1 | 19980730 | WO 1998-DK8 | 19980108 <-- |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| AU 9854781 | A1 | 19980818 | AU 1998-54781 | 19980108 <-- |
| AU 733561 | B2 | 20010517 | | |
| EP 966424 | A1 | 19991229 | EP 1998-900270 | 19980108 <-- |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| NZ 336754 | A | 20010330 | NZ 1998-336754 | 19980108 |
| JP 2001511771 | T2 | 20010814 | JP 1998-531499 | 19980108 |
| RU 2200153 | C2 | 20030310 | RU 1999-118221 | 19980108 |
| US 6313174 | B1 | 20011106 | US 1999-341923 | 19990721 <-- |

PRIORITY APPLN. INFO.: GB 1997-1453 A 19970124
WO 1998-DK8 W 19980108

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OTHER SOURCE(S): MARPAT 129:148822
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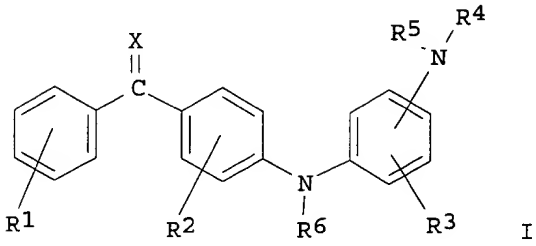


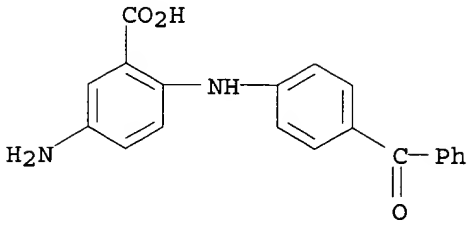
I

AB The title compds. I [R1 and R2 stand independently for one or more, similar or different substituents selected from the group consisting of hydrogen, halogen, hydroxy, mercapto, trifluoromethyl, amino, alkyl, alkoxy, alkylthio, alkylamino, or alkoxycarbonyl, the C-content of which can be from 1 to 5, cyano, carboxy, carbamoyl, Ph, or nitro; R3 stands for hydrogen, halogen, hydroxy, mercapto, trifluoromethyl, amino, alkyl, alkoxy, alkylthio, alkylamino, or alkoxycarbonyl, the C-content of which can be from 1 to 5, Ph, cyano, carboxy, or carbamoyl; R4, R5 and R6 stand independently for hydrogen, trifluoromethyl, alkyl, carbamoyl, alkoxycarbonyl, or alkyloxo, the C-content of which can be from 1 to 5; X stands for oxygen, NOH, NO-alkyl, dialkoxy, cyclic dialkoxy, dialkylthio, or cyclic dialkylthio, the C-content of which can be from 1 to 5] are prepd. The present compds. are of value in the human and veterinary practice as systemic and topical therapeutic agents for the treatment and prophylaxis of asthma, allergy, rheumatoid arthritis, spondyloarthritis, gout, atherosclerosis, chronic inflammatory bowel disease, proliferative and inflammatory skin disorders, such as psoriasis, and atopic dermatitis. In an in vitro test using human polymorphonuclear granulocytes, 4-(2-aminophenylamino)-2-chloro-2'-methylbenzophenone in vitro showed IC50 of 13 nM and 7.1 nM against the prodn. of Il-1.beta. and TNF-.alpha., resp. In the above test, 4-(2-aminophenylamino)benzophenone (II) in vitro showed IC50 of 250 nM and 790 nM against the prodn. of Il-1.beta. and TNF-.alpha., resp. In the 12-O-tetradecanoylphorbol-13-acetate induced murine skin inflammation model, II showed activity equal to hydrocortisone.

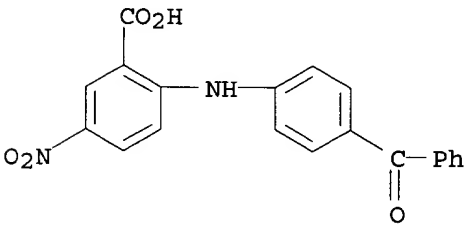
IT **210965-71-2P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aminobenzophenones as inhibitors of interleukin and TNF)

RN 210965-71-2 CAPLUS

CN Benzoic acid, 5-amino-2-[(4-benzoylphenyl)amino]- (9CI) (CA INDEX NAME)



IT **210966-60-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of aminobenzophenones as inhibitors of interleukin and TNF)
RN 210966-60-2 CAPLUS
CN Benzoic acid, 2-[(4-benzoylphenyl)amino]-5-nitro- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

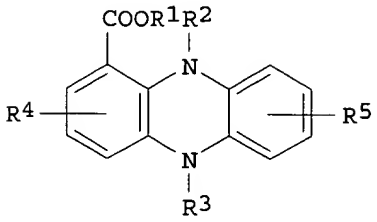
L15 ANSWER 10 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:394329 CAPLUS
DOCUMENT NUMBER: 129:54392
TITLE: Preparation of dihydrophenazinecarboxylic acid derivatives as glutamic acid toxicity inhibitors
INVENTOR(S): Takahashi, Toshihiro; Nomura, Yutaka; Seto, Haruo; Shin-Ya, Kazuo
PATENT ASSIGNEE(S): Nippon Chemiphar Co., Ltd., Japan; Takahashi, Toshihiro; Nomura, Yutaka; Seto, Haruo; Shin-Ya, Kazuo
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9824772 | A1 | 19980611 | WO 1997-JP3674 | 19971014 <-- |
| W: US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| JP 10218864 | A2 | 19980818 | JP 1997-294995 | 19971014 <-- |
| EP 945444 | A1 | 19990929 | EP 1997-944108 | 19971014 <-- |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| US 6150363 | A | 20001121 | US 1999-319285 | 19990602 <-- |

PRIORITY APPLN. INFO.: JP 1996-337492 A 19961203
WO 1997-JP3674 W 19971014

<N30/09/2003Page 21 16:36 <golam sha <mm/dd/yyyy

OTHER SOURCE(S): MARPAT 129:54392
GI



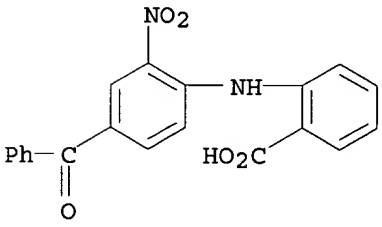
I

AB The title compds. I [R1 represents hydrogen, linear or branched alkyl, etc.; R2 and R3 each represents hydrogen, 3-methyl-2-butenyl, etc.; and R4 and R5 each represents hydrogen, alkyl, alkenyl, alkynyl, aralkyl, aryl, hydroxy, alkoxy, aryloxy, aralkyloxy, halogeno, nitro, cyano, alkylsulfonyl, arylsulfonyl, alkylcarbonyl, arylcarbonyl, etc., exclusive of the case where both of R4 and R5 are hydrogen] are prepd. In an in vitro test for glutamic acid toxicity inhibition using N18-RE-105 cells, Et 7-benzoyl-5,10-dihydro-1-phenazinecarboxylate showed EC50 of 3.3 nM, vs. EC50 of 10.1 x 103 nM shown by Ebselen.

IT **206134-81-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of dihydrophenazinecarboxylic acid derivs. as glutamic acid toxicity inhibitors)

RN 206134-81-8 CAPLUS

CN Benzoic acid, 2-[(4-benzoyl-2-nitrophenyl)amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 11 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:331458 CAPLUS
DOCUMENT NUMBER: 129:17060
TITLE: Incorporation of sulfonated precursors during quinacridone preparation
INVENTOR(S): Badejo, Ibraheem T.; Britanak, John F.; Rice, Daphne J.
PATENT ASSIGNEE(S): Bayer Corp., USA
SOURCE: U.S., 12 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

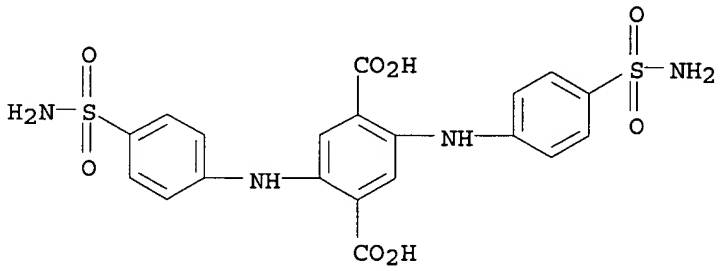
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5755873 | A | 19980526 | US 1996-748742 | 19961118 <-- |
| EP 842987 | A2 | 19980520 | EP 1997-119395 | 19971106 <-- |
| EP 842987 | A3 | 19980805 | | |
| EP 842987 | B1 | 20020904 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| JP 10158536 | A2 | 19980616 | JP 1997-327209 | 19971113 <-- |

PRIORITY APPLN. INFO.: US 1996-748742 A 19961118
OTHER SOURCE(S): CASREACT 129:17060; MARPAT 129:17060

AB The first step for prepg. quinacridone pigments includes heating a reaction mixt. comprising (i) a 2,5-dianilinoterephthalic acid, a 2,5-dianilino-3,6-dihydroterephthalic acid, or a 2,5-dianilino-3,6-dioxo-1,4-cyclohexadiene-1,4-dicarboxylic acid 100, (ii) one or more sulfo- or sulfamoyl-contg. derivs. of 2,5-dianilinoterephthalic acid, 2,5-dianilino-3,6-dihydroterephthalic acid, and/or 2,5-dianilino-3,6-dioxo-1,4-cyclohexadiene-1,4-dicarboxylic acid 0.1-15, and (iii) a dehydrating agent 3-20 parts, with the proviso that if either component (i) or component (ii) is a 2,5-dianilino-3,6-dihydroterephthalic acid or deriv. thereof, then this step addnl. comprises an oxidn. stage. In the second step the reaction mixt. from the first step is drowned with a liq. in which the quinacridone pigment is substantially insol. The final step consists of isolating the pigment. The presence of the sulfonated dicarboxylic acid in the ring closure step provides quinacridone pigments having deeper, brighter masstones and improved transparency and rheol. properties. Examples were given for the prepn. of quinacridone, 2,9-dimethylquinacridone, and gamma-quinacridone, using polyphosphoric acid cyclization catalyst and 2,5-bis(4-sulfamoylanilino)terephthalic acid, 2,5-bis[4-(3,4-dimethyl-5-isoxazolylsulfamoyl)anilino]terephthalic acid, 2,5-bis[4-(diethylsulfamoyl)anilino]terephthalic acid, or di-Me 2,5-bis[4-(3-methoxypropylsulfamoyl)anilino]-1,4-cyclohexadiene-1,4-dicarboxylate.

IT **207793-48-4P**, 2,5-Bis(4-sulfamoylanilino)terephthalic acid
**207793-50-8P**, 2,5-Bis[4-(diethylsulfamoyl)anilino]terephthalic acid **207793-52-0P**, 2,5-Bis[4-(3,4-dimethyl-5-isoxazolylsulfamoyl)anilino]terephthalic acid
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(prepn. of quinacridone pigments in presence of sulfonated precursors)

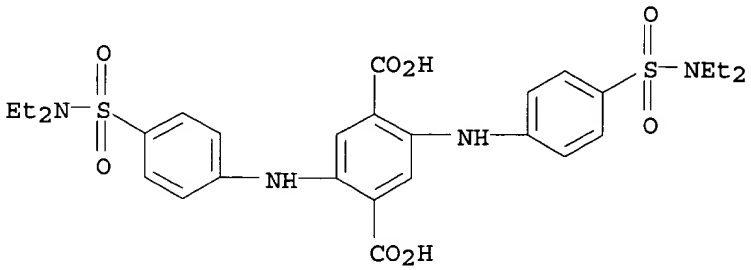
RN 207793-48-4 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-(aminosulfonyl)phenyl]amino]-(9CI) (CA INDEX NAME)



RN 207793-50-8 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-[(diethylamino)sulfonyl]phenyl]am

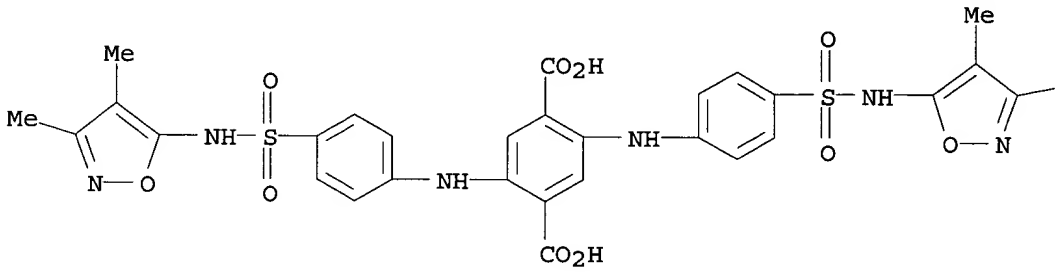
<N30/09/2003Page 23 16:36 <golam sha <mm/dd/yyyy

ino]- (9CI) (CA INDEX NAME)



RN 207793-52-0 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-[[(3,4-dimethyl-5-isoxazolyl)amino]sulfonyl]phenyl]amino]- (9CI) (CA INDEX NAME)

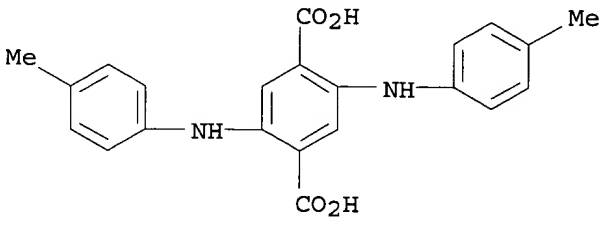
PAGE 1-A



PAGE 1-B

— Me

IT **10291-28-8**, 2,5-Bis(4-methylanilino)terephthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; prepn. of quinacridone pigments in presence of sulfonated precursors)
RN 10291-28-8 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



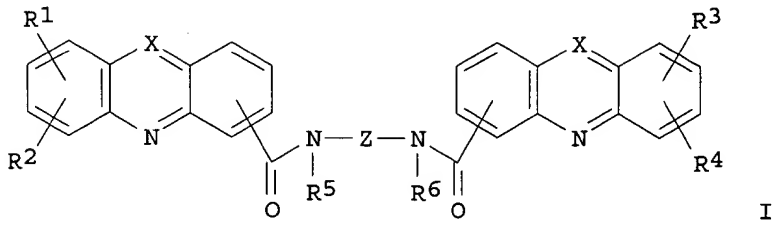
<N30/09/2003Page 24 16:36 <golam sha <mm/dd/yyyy

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 12 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:268491 CAPLUS
DOCUMENT NUMBER: 128:308499
TITLE: Bis(acridinecarboxamide) and bis(phenazinecarboxamide) as antitumor agents
INVENTOR(S): Denny, William Alexander; Gamage, Swarnalatha Akuritaya; Spicer, Julie Ann; Baguley, Bruce Charles; Finlay, Graeme John
PATENT ASSIGNEE(S): Xenova Ltd., UK; Denny, William Alexander; Gamage, Swarnalatha Akuritaya; Spicer, Julie Ann; Baguley, Bruce Charles; Finlay, Graeme John
SOURCE: PCT Int. Appl., 100 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| WO 9817650 | A1 | 19980430 | WO 1997-GB2886 | 19971017 | <-- |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | | |
| RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | | |
| AU 9747137 | A1 | 19980515 | AU 1997-47137 | 19971017 | <-- |
| AU 717724 | B2 | 20000330 | | | |
| ZA 9709331 | A | 19980521 | ZA 1997-9331 | 19971017 | <-- |
| ZA 9709328 | A | 19980706 | ZA 1997-9328 | 19971017 | <-- |
| EP 934278 | A1 | 19990811 | EP 1997-909456 | 19971017 | <-- |
| EP 934278 | B1 | 20020904 | | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | | |
| GB 2334032 | A1 | 19990811 | GB 1999-8192 | 19971017 | <-- |
| GB 2334032 | B2 | 20001108 | | | |
| BR 9711948 | A | 19990824 | BR 1997-11948 | 19971017 | <-- |
| CN 1240430 | A | 20000105 | CN 1997-180614 | 19971017 | |
| CN 1116285 | B | 20030730 | | | |
| NZ 335055 | A | 20000929 | NZ 1997-335055 | 19971017 | |
| JP 2001503399 | T2 | 20010313 | JP 1998-519109 | 19971017 | |
| RU 2179972 | C2 | 20020227 | RU 1999-109978 | 19971017 | |
| AT 223381 | E | 20020915 | AT 1997-909456 | 19971017 | |
| ES 2183142 | T3 | 20030316 | ES 1997-909456 | 19971017 | |
| TW 432060 | B | 20010501 | TW 1997-86115404 | 19971018 | |
| BG 103329 | A | 20001130 | BG 1999-103329 | 19990413 | |
| NO 9901833 | A | 19990603 | NO 1999-1833 | 19990416 | <-- |
| KR 2000049252 | A | 20000725 | KR 1999-703357 | 19990416 | |
| US 6114332 | A | 20000905 | US 1999-284623 | 19990618 | <-- |
| HK 1018773 | A1 | 20010302 | HK 1999-103666 | 19990826 | |

PRIORITY APPLN. INFO.: GB 1996-21795 A 19961018
WO 1997-GB2886 W 19971017
OTHER SOURCE(S): CASREACT 128:308499; MARPAT 128:308499
GI



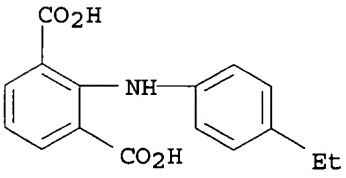
I

AB Compds. I [R1-R4 = H, C1-4 alkyl, OH, etc.; or R1 and R2 together form a methylenedioxy group; R5, R6 = H, C1-4 alkyl; X = CH, N; Z = (CH2)n, (CH2)nO(CH2)n, (CH2)nNR7(CH2)n, (CH2)nNR7(CH2)mNR7(CH2)n, (CH2)nN(CH2CH2)2N(CH2)n; R7 = H, C1-4 alkyl; m, n = 1-4; with the exception of compds. wherein each X is N, each of R1-R6 is H, the carboxamide moiety is attached to position 1 of each phenazine ring and Z is (CH2)2NH(CH2)2, (CH2)3NH(CH2)3, (CH2)3N(CH2CH2)2N(CH2)3, (CH2)2NH(CH2)2NH(CH2)2 or (CH2)3NH(CH2)2NH(CH2)3] or a pharmaceutically acceptable acid addn. salt or N-oxide thereof; have activity as an antitumor and antibacterial agent. Thus, bis[(5-methylacridine-4-carboxamido)propyl]methylamine was prepd. and showed an IC50 value of 11 nM on a wild-type human leukemia line (Jurkat; JLc).

IT **190844-97-4P 190845-11-5P 190845-14-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(bis(acridinecarboxamide) and bis(phenazinecarboxamide) as antitumor and antibacterial agents)

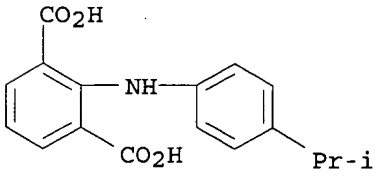
RN 190844-97-4 CAPLUS

CN 1,3-Benzenedicarboxylic acid, 2-[(4-ethylphenyl)amino]- (9CI) (CA INDEX NAME)



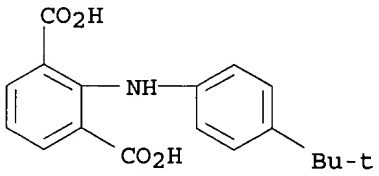
RN 190845-11-5 CAPLUS

CN 1,3-Benzenedicarboxylic acid, 2-[[4-(1-methylethyl)phenyl]amino]- (9CI) (CA INDEX NAME)



RN 190845-14-8 CAPLUS

CN 1,3-Benzenedicarboxylic acid, 2-[[4-(1,1-dimethylethyl)phenyl]amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 13 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:226814 CAPLUS
DOCUMENT NUMBER: 128:270439
TITLE: Preparation of aromatic compounds for inhibiting immune response
INVENTOR(S): Ocain, Timothy D.; Gao, Huai; Krieger, Jeffrey I.; Sampo, Theresa M.
PATENT ASSIGNEE(S): Procept, Inc., USA
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5739169 | A | 19980414 | US 1996-656468 | 19960531 <-- |

PRIORITY APPLN. INFO.: US 1996-656468 19960531
OTHER SOURCE(S): MARPAT 128:270439
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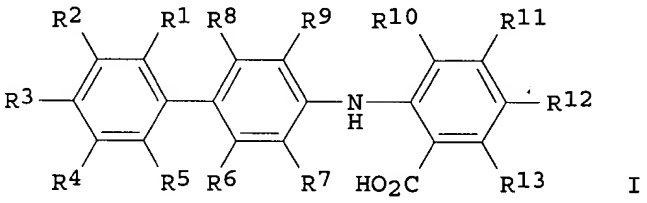


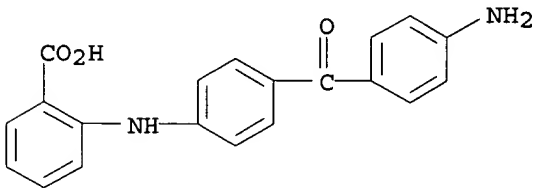
I

AB The title compds. [I; R1-R13 = C2-4 alkyl, H, NH2, etc.] and their salts, useful as immunosuppressive agents to prevent or significantly reduce graft rejection in organ and bone marrow transplantation, were prepd. Thus, reaction of 3,3'-dimethoxybenzidine with diphenyliodonium-2-carboxylate in the presence of Cu(OAc)2 in iPrOH afforded Na salt of I [R1 = R2 = R5 = R6 = R8 = R9 = R10-R13 = H; R3 = NH2; R4 = R7 = MeO] which showed IC50 of 5 ng/mL in mixed lymphocyte reactions (MLR) assay. The novel compds. I can also be used as an immunosuppressant drugs for T-lymphocyte mediated autoimmune diseases, such as diabetes, and may be useful in alleviating psoriasis and contact dermatitis. Addnl., the novel compds. I can be used for antiproliferation and gene therapy.

IT **205578-85-4P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

<N30/09/2003Page 27 16:36 <golam sha <mm/dd/yyyy

(prepn. of arom. compds. for inhibiting immune response)
RN 205578-85-4 CAPLUS
CN Benzoic acid, 2-[[4-(4-aminobenzoyl)phenyl]amino]- (9CI) (CA INDEX NAME)




REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

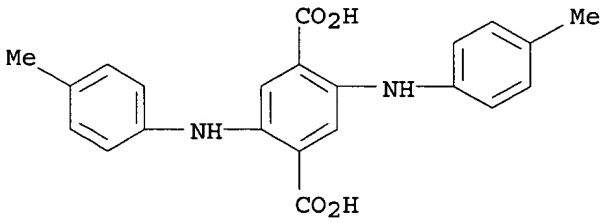
L15 ANSWER 14 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1997:809778 CAPLUS
DOCUMENT NUMBER: 128:76687
TITLE: Organic pigment compositions
INVENTOR(S): Badejo, Ibraheem T.; Rice, Daphne J.
PATENT ASSIGNEE(S): Bayer Corp., USA
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5698024 | A | 19971216 | US 1996-777102 | 19961231 <-- |
| CA 2224618 | AA | 19980630 | CA 1997-2224618 | 19971211 <-- |
| EP 851007 | A1 | 19980701 | EP 1997-122502 | 19971219 <-- |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 10195329 | A2 | 19980728 | JP 1997-369330 | 19971230 <-- |

PRIORITY APPLN. INFO.: US 1996-777102 19961231
OTHER SOURCE(S): MARPAT 128:76687

AB Pigment compns. comprise an org. pigment treated with .apprx.0.1 to .apprx.20% compd. having the formula Q[CH2NHCXZ]n, wherein Q represents an org. pigment moiety, X is O or S, Z represents a heteroarom. group attached at a ring carbon atom to the (thio)amidomethyl -CH2NHCX- linking group, and n is 1-4. Thus, 2,9-dimethylquinacridone (I) was dry-blended with 10% nicotinamidomethylquinacridone (II), and a water-based paint contg. the pigment exhibited a reduced viscosity and bluer tint compared to a paint contg. I and no II.

IT **10291-28-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(dimethylquinacridone pigments from)
RN 10291-28-8 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 15 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1997:732153 CAPLUS
DOCUMENT NUMBER: 127:359968
TITLE: Quinacridone pigments and incorporation of pigment derivatives during their preparation
INVENTOR(S): Badejo, Ibraheem T.; Campos, Margot; Greene, Michael J.; Rice, Daphne J.
PATENT ASSIGNEE(S): Bayer Corporation, USA
SOURCE: Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
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| EP 805189 | A2 | 19971105 | EP 1997-106253 | 19970416 | <-- |
| EP 805189 | A3 | 19980722 | | | |
| EP 805189 | B1 | 20020710 | | | |
| R: CH, DE, ES, FR, GB, IT, LI | | | | | |
| US 5713999 | A | 19980203 | US 1996-639598 | 19960429 | <-- |
| CA 2199597 | AA | 19971029 | CA 1997-2199597 | 19970310 | <-- |
| ES 2179977 | T3 | 20030201 | ES 1997-106253 | 19970416 | |
| JP 10053714 | A2 | 19980224 | JP 1997-121563 | 19970425 | <-- |

PRIORITY APPLN. INFO.: US 1996-639598 A 19960429
OTHER SOURCE(S): MARPAT 127:359968

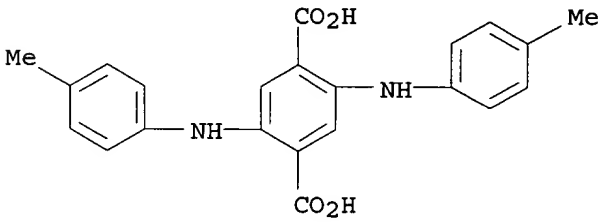
AB Quinacridone pigments are prepd. by heating, at 80-145.degree., a reaction mixt. contg. (i) 2,5-dianilinoterephthalic acid, a 2,5-dianilinodihydroterephthalic acid ester, and/or a deriv. thereof, (ii) 3-15 parts per part of component (i), of a dehydrating agent, and (iii) 0.1-15% based on component (i), of one or more non-quinacridone pigments, with the proviso that if component (i) is a 2,5-dianilino-6,13-dihydroterephthalic acid ester or a deriv. thereof, this reaction step addnl. comprises an oxidn. step; (b) drowning the reaction mixt. from step (a) by adding said reaction mixt. to about 3 to about 15 parts by wt., per part of component (a)(i), of a liq. in which the quinacridone pigment is substantially insol.; (c) isolating the quinacridone pigment; (d) optionally, conditioning the quinacridone pigment; and (e) optionally, blending the resultant pigment with one or more quinacridone derivs. The resulting reaction mixt. is drowned by adding it to 3-15 parts per 100 parts (i) of a liq. in which the quinacridone pigment is substantially insol. The quinacridone pigment is then isolated and optionally conditioned and/or blended with one or more quinacridone derivs. This process provides for pigments with improved masstones and rheol. properties. In an example, 2,5-dianilinoterephthalic acid was cyclocondensed with polyphosphoric acid in the presence of copper N-[3-(dimethylamino)propyl]phthalocyaninesulfonamide to give a brilliant

violet quinacridone pigment with properties superior to a com. product.

IT **10291-28-8**, 2,5-Bis(4-methylanilino)terephthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; prepn. of quinacridones in presence of other pigments)

RN 10291-28-8 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 16 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1997:719569 CAPLUS
DOCUMENT NUMBER: 127:359967
TITLE: Quinacridone pigments and incorporation of aromatic polycyclic compounds in their preparation
INVENTOR(S): Badejo, Ibraheem T.; Rice, Daphne J.
PATENT ASSIGNEE(S): Bayer Corporation, USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| US 5683502 | A | 19971104 | US 1996-639599 | 19960429 | <-- |
| CA 2199599 | AA | 19971029 | CA 1997-2199599 | 19970310 | <-- |
| EP 805188 | A2 | 19971105 | EP 1997-106254 | 19970416 | <-- |
| EP 805188 | A3 | 19980722 | | | |
| R: CH, DE, FR, GB, LI | | | | | |
| JP 10053713 | A2 | 19980224 | JP 1997-120117 | 19970424 | <-- |

PRIORITY APPLN. INFO.: US 1996-639599 19960429
OTHER SOURCE(S): CASREACT 127:359967; MARPAT 127:359967

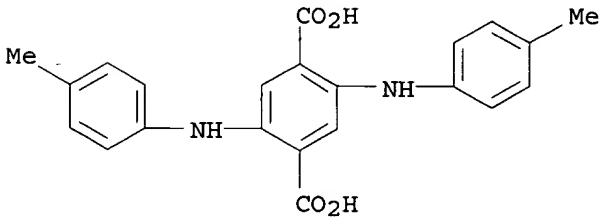
AB This invention relates to a multistep process for the prepn. of quinacridone pigments in which the first step (a) is heating, at a temp. of about 80-145.degree., a reaction mixt. contg. (i) 2,5-dianilinoterephthalic acid, a 2,5-dianilino-3,6-dihydroterephthalic acid ester, and/or a deriv. thereof, (ii) about 3-15 parts per part of component (i), of a dehydrating agent, and (iii) about 0.1-15%, based on component (i), of one or more non-pigmentary arom. polycyclic compds. and/or derivs. thereof, with the proviso that if component (i) is a 2,5-dianilino-3,6-dihydroterephthalic acid ester or a deriv. thereof, then reaction step (a) addnl. comprises an oxidn. step. The next step (b) comprises drowning the reaction mixt. from step (a) by adding said reaction mixt. to about 3-15 parts, per part of component (i), of a liq. in which the quinacridone pigment is substantially insol. The final step(s) consist of (c) isolating the quinacridone pigment; (d) optionally conditioning the quinacridone pigment; and (e) optionally blending the

resultant pigment with one or more quinacridone derivs. The process provides pigments having deeper, brighter, and more transparent masstones in addn. to improved rheol. properties. In an example, 2,5-bis(4-methylanilino)terephthalic acid was cyclized in polyphosphoric acid contg. anthraquinone and the product was drowned in MeOH to give magenta 2,9-dimethylquinacridone with better rheol. properties than a com. pigment.

IT **10291-28-8**, 2,5-Bis(4-methylanilino)terephthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; prepn. of quinacridone pigments with improved properties)

RN 10291-28-8 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 17 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1997:678949 CAPLUS
DOCUMENT NUMBER: 127:294624
TITLE: Manufacture of quinacridone pigments
INVENTOR(S): Urban, Manfred; Schnaitmann, Dieter; Bohmer, Martin
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 799862 | A2 | 19971008 | EP 1997-104942 | 19970324 <-- |
| EP 799862 | A3 | 19980722 | | |
| EP 799862 | B1 | 20011031 | | |
| R: AT, CH, DE, FR, GB, IT, LI, NL | | | | |
| DE 19613186 | A1 | 19971009 | DE 1996-19613186 | 19960402 <-- |
| CA 2201414 | AA | 19971002 | CA 1997-2201414 | 19970401 <-- |
| CN 1171416 | A | 19980128 | CN 1997-110216 | 19970401 <-- |
| CN 1080292 | B | 20020306 | | |
| JP 10036699 | A2 | 19980210 | JP 1997-82862 | 19970401 <-- |
| US 5755872 | A | 19980526 | US 1997-834728 | 19970401 <-- |

PRIORITY APPLN. INFO.: DE 1996-19613186 A 19960402
OTHER SOURCE(S): MARPAT 127:294624
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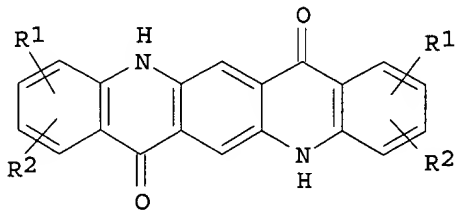


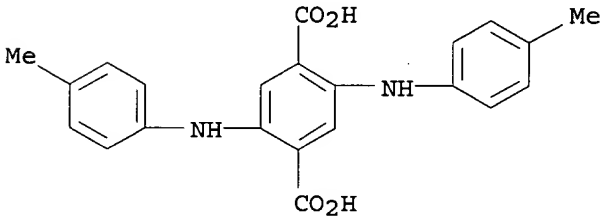
I

AB Quinacridone pigments (I; R1, R2 = H, Cl, Br, F, C1-4-alkyl or -alkoxy, optionally substituted carbonamido) are obtained by cyclocondensation of the appropriate 2,5-dianilinoterephthalic acids in the presence of polyphosphoric acids or their esters at 120-140.degree. followed by hydrolysis of the product with a mineral acid such as phosphoric acid at 135-165.degree.. The high-temp. hydrolysis provides a .beta.-phase pigment with improved coloristic and rheol. properties with minimized ecol. impact. Thus, 141.2 g 2,5-dianilinoterephthalic acid was heated 1 h at 125.degree. in polyphosphoric acid and the product was hydrolyzed with orthophosphoric acid in a closed container at 140-170.degree. to give 126.5 g .beta.-phase C.I. Pigment Violet.

IT **10291-28-8**, 2,5-Bis(4-methylanilino)terephthalic acid
**196809-45-7**, 2,5-Bis(3-chloro-4-methylanilino)terephthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; prodn. of .beta.-form quinacridone pigments)

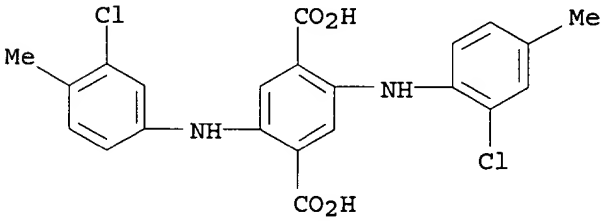
RN 10291-28-8 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



RN 196809-45-7 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2-[(2-chloro-4-methylphenyl)amino]-5-[(3-chloro-4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



L15 ANSWER 18 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1996:580566 CAPLUS

09889106

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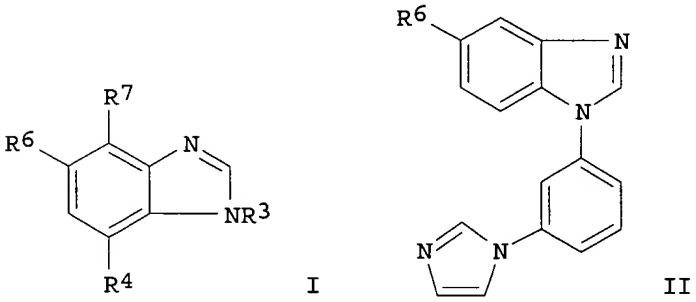
DOCUMENT NUMBER: 125:300997
TITLE: Benzimidazole compounds useful as benzodiazepine receptor ligands
INVENTOR(S): Teuber, Lene; Axelsson, Oskar; Watjen, Frank
PATENT ASSIGNEE(S): Neurosearch A/s, Den.; Meiji Seika Kaisha, Ltd.
SOURCE: U.S., 19 pp., Cont.-in-part of U.S. Ser. No. 207,774, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5554630 | A | 19960910 | US 1995-410572 | 19950324 <-- |
| ZA 9402079 | A | 19941024 | ZA 1994-2079 | 19940324 <-- |
| US 5554632 | A | 19960910 | US 1994-352585 | 19941209 <-- |

PRIORITY APPLN. INFO.: DK 1993-337 A 19930324
DK 1993-1055 A 19930921
US 1994-207774 B2 19940308
OTHER SOURCE(S): MARPAT 125:300997
GI



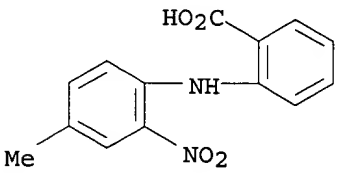
I II

AB The invention discloses title compds. I [R3 = certain (un)substituted (hetero)aryl groups; R4 = H, NH2, NO2, cyano, halo, acylamino, (un)substituted aryl; or R4 forms bridges to aryl ring of R3; R6, R7 = H, halo, NH2, NO2, cyano, acylamino, CF3, (un)substituted aryl; or R6 and R7 form certain optionally heteroatom-contg. bridges] and their pharmaceutically acceptable salts, as well as the medical use of a broader class of 1-arylbenzimidazoles, including I. The compds. are useful for the treatment of various central nervous system disorders such as epilepsy and other convulsive disorders, anxiety, sleep disorders, and memory disorders. For example, 2-amino-3'-iodo-4-(trifluoromethyl)diphenylamine (prepn. given) underwent cyclocondensation with formic acid at reflux, and coupling with imidazole in the presence of K2CO3 and CuBr at 200.degree., to give title compd. II [R6 = CF3]. In an in-vivo test for inhibition of [3H]-flunitrazepam specific binding to mouse forebrain GABAA receptors, II [R6 = CF3] had an ED50 of 7.3 mg/kg i.p., and II [R6 = Me] had an ED50 of 0.8 mg/kg i.p.

IT **92149-45-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of benzimidazole derivs. as benzodiazepine receptor ligands)

<N30/09/2003Page 33 16:36 <golam sha <mm/dd/yyyy

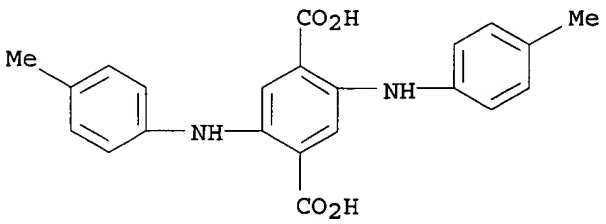
RN 92149-45-6 CAPLUS
CN Benzoic acid, 2-[(4-methyl-2-nitrophenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 19 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1996:200394 CAPLUS
DOCUMENT NUMBER: 124:319681
TITLE: Preparation of quinacridone pigments with reduced particle size
INVENTOR(S): Campos, Margot; Franke, Guenter; Greene, Michael J.
PATENT ASSIGNEE(S): Bayer A.-G., USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5496405 | A | 19960305 | US 1994-349868 | 19941206 <-- |
| CA 2163400 | AA | 19960607 | CA 1995-2163400 | 19951121 <-- |
| EP 716129 | A1 | 19960612 | EP 1995-118427 | 19951123 <-- |
| EP 716129 | B1 | 20010207 | | |
| R: BE, CH, DE, ES, FR, GB, IT, LI | | | | |
| JP 08231870 | A2 | 19960910 | JP 1995-335688 | 19951201 <-- |

PRIORITY APPLN. INFO.: US 1994-349868 A 19941206
OTHER SOURCE(S): MARPAT 124:319681
AB The pigments are prepd. by (a) heating at 80-145.degree. a reaction mixt. comprising (i) 100 parts 2,5-dianilinoterephthalic acid (I) or its deriv. having .gtoreq.1 substituents in .gtoreq.1 aniline ring, (ii) 2-10 parts of a dehydrating agent, and (iii) 0.01-10 wt.% (on i) of a salt other than an Fe salt; (b) drowning the reaction mixt. from (a) by adding said reaction mixt. to 3-15 parts of a liq. in which the pigment is substantially insol.; (c) isolating the quinacridone pigment; and optionally (d) conditioning the quinacridone pigment. Thus, 0.25 g NaCl and 50 g I were added to 270 g polyphosphoric acid at 80-95.degree., heated 4 h at 120-125.degree., cooled to 90-95.degree., adjusted to acid strength 107% by addn. of 75% H3PO4, and poured into 400 g MeOH at 35.degree. to give a slurry, which was heated at 68-72.degree. for 1 h, dild. with water, and filtered to give, after a multistep workup, 40 g quinacridone as a brilliant violet solid with a bluer tint than the pigment obtained without the use of NaCl.
IT **10291-28-8**, 2,5-Bis(4-methylanilino)terephthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of quinacridone pigments with reduced particle size)
RN 10291-28-8 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 20 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1995:997776 CAPLUS
DOCUMENT NUMBER: 124:90271
TITLE: Preparation of quinacridone pigments
INVENTOR(S): Campos, Margot; Pfuetzenreuter, Dirk; Franke, Guenter; Greene, Michael J.
PATENT ASSIGNEE(S): Bayer Corp., USA
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

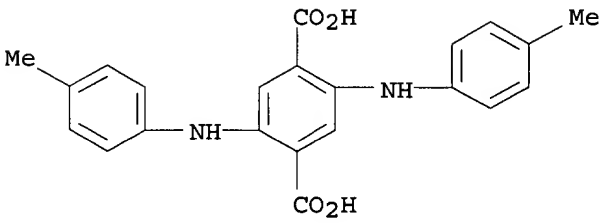
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 682090 | A1 | 19951115 | EP 1995-106071 | 19950424 <-- |
| EP 682090 | B1 | 20000216 | | |
| R: CH, DE, FR, GB, LI | | | | |
| US 5491235 | A | 19960213 | US 1994-239180 | 19940506 <-- |
| CA 2146603 | AA | 19951107 | CA 1995-2146603 | 19950407 <-- |
| JP 08170026 | A2 | 19960702 | JP 1995-127474 | 19950428 <-- |

PRIORITY APPLN. INFO.: US 1994-239180 19940506
OTHER SOURCE(S): CASREACT 124:90271

AB The process comprises (a) heating, at 80-145.degree., a reaction mixt. comprising (i) 100 parts 2,5-dianilinoterephthalic acid (I) or a I deriv. substituted in .gtoreq.1 aniline ring, (ii) 2-10 parts of a strong acid, and (iii) .gtoreq.0.4 mol% (on I, as Fe) of an iron salt, (b) drowning the reaction mixt. in 3-15 parts of a liq. in which the pigment is substantially insol.; (c) isolating the quinacridone pigment; and optionally (d) conditioning the quinacridone pigment. Thus, 0.17 mol I contg. 583 ppm Fe was cyclized in polyphosphoric acid contg. 2.7 mmol FeSO4.7H2O at 120-125.degree., drowned in aq. MeOH, filtered, washed, and dried to give quinacridone of smaller particle size than obtained in the absence of added Fe.

IT **10291-28-8**, 2,5-Di-p-toluidinoterephthalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of quinacridone pigments with reduced particle size by cyclization of)

RN 10291-28-8 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 21 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1995:995003 CAPLUS
DOCUMENT NUMBER: 124:117110
TITLE: Acridone-derived bisintercalators as chemotherapeutic agents
INVENTOR(S): Michejda, Christopher J.; Cholody, Wieslaw M.; Hernandez, Lidia
PATENT ASSIGNEE(S): United States Dept. of Health and Human Services, USA
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| WO 9525093 | A1 | 19950921 | WO 1995-US3079 | 19950309 | <-- |
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| RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | | |
| US 5508289 | A | 19960416 | US 1994-213315 | 19940314 | <-- |
| CA 2185350 | AA | 19950921 | CA 1995-2185350 | 19950309 | <-- |
| AU 9519900 | A1 | 19951003 | AU 1995-19900 | 19950309 | <-- |
| AU 684624 | B2 | 19971218 | | | |
| EP 750612 | A1 | 19970102 | EP 1995-912887 | 19950309 | <-- |
| EP 750612 | B1 | 19991215 | | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | | |
| JP 09510451 | T2 | 19971021 | JP 1995-524112 | 19950309 | <-- |
| AT 187716 | E | 20000115 | AT 1995-912887 | 19950309 | |
| ES 2140668 | T3 | 20000301 | ES 1995-912887 | 19950309 | |
| FI 9603626 | A | 19961108 | FI 1996-3626 | 19960913 | <-- |

PRIORITY APPLN. INFO.: US 1994-213315 A 19940314
WO 1995-US3079 W 19950309
OTHER SOURCE(S): MARPAT 124:117110
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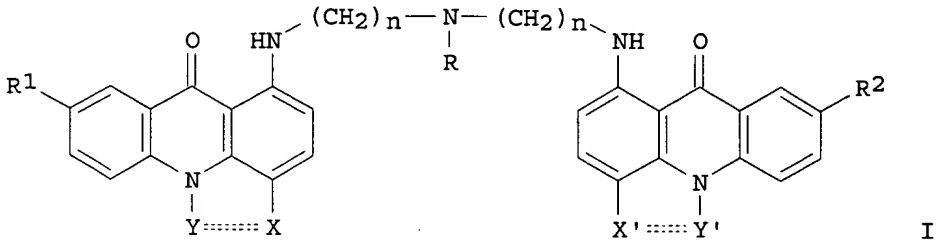

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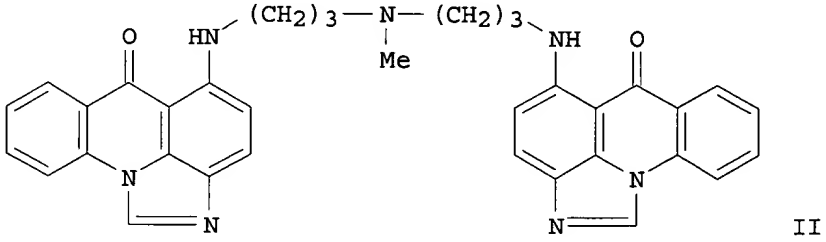


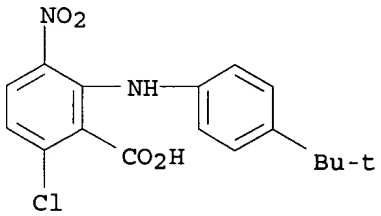
II

AB The invention provides compds. I [R = H, Me, or Et; R1 and R2 = H, OH, NH2, OMe, CMe3, or halo; n = 2-6; X and X' = N or NO2; Y and Y' = N, CH, or H; either a double bond or no bond between the X and Y groups]. The invention also provides pharmaceutical compns., and a method for treating neoplastic cell growth with them. The invention further provides nucleic acids labeled with I, and a method using I for detection of nucleic acid in a sample. For example, condensation of 3,3'-diamino-N-methyldipropylamine with 2 mol equiv 1-chloro-4-nitro-9(10H)-acridone (82%), and reductive cyclization of the resultant bis-nitroacridone compd. with formic acid in the presence of Raney Ni-Al alloy, gave title compd. II [WMC-26]. This compd. showed high selectivity toward colon cancer cells in vitro (T/C in nanomolar range), but only moderate toxicity in nude mice, being tolerated at 200 mg/kg/day for 3 days. Antineoplastic data for selected I against several cell lines are included.

IT **166756-48-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of acridone derivs. as bis-intercalating chemotherapeutics)

RN 166756-48-5 CAPLUS

CN Benzoic acid, 6-chloro-2-[[4-(1,1-dimethylethyl)phenyl]amino]-3-nitro- (9CI) (CA INDEX NAME)



L15 ANSWER 22 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1995:767451 CAPLUS
DOCUMENT NUMBER: 123:146707

<N30/09/2003Page 37 16:36 <golam sha <mm/dd/yyyy

TITLE: Preparation of quinacridones and their intermediates
INVENTOR(S): Schwarz, Franz; Altreiter, Johann; Moestl, Franz
PATENT ASSIGNEE(S): Chemie Linz GmbH, Austria
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 648733 | A2 | 19950419 | EP 1994-115808 | 19941007 <-- |
| EP 648733 | B1 | 19980121 | | |
| R: AT, CH, DE, ES, FR, GB, IT, LI | | | | |
| AT 9302096 | A | 19960215 | AT 1993-2096 | 19931019 <-- |
| AT 401515 | B | 19960925 | | |
| AT 162513 | E | 19980215 | AT 1994-115808 | 19941007 <-- |
| ES 2111229 | T3 | 19980301 | ES 1994-115808 | 19941007 <-- |
| JP 07179774 | A2 | 19950718 | JP 1994-252485 | 19941018 <-- |
| US 5491255 | A | 19960213 | US 1994-324709 | 19941018 <-- |
| US 5659076 | A | 19970819 | US 1995-519350 | 19950825 <-- |

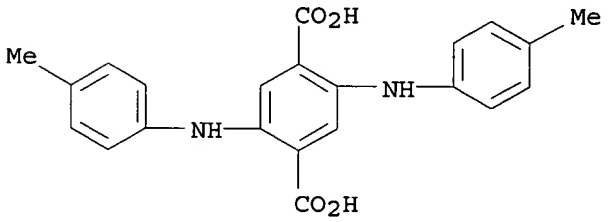
PRIORITY APPLN. INFO.: AT 1993-2096 19931019
US 1994-324709 19941018
OTHER SOURCE(S): CASREACT 123:146707; MARPAT 123:146707

AB Di-Me succinylsuccinate (I) is transesterified with .gtoreq.1 C.gtoreq.2-alc(s). in the presence of an acid catalyst and in the absence of O and optionally an inert solvent under pressure to replace .gtoreq.1 Me group in I. The product is then treated with an arom. amine to provide a 2,5-dianilinoterephthalic acid deriv., useful as a quinacridone pigment intermediate. I is more difficult to process than the higher esters. In an example, I was transesterified with BuOH in the presence of H2SO4 to give a mixt. of di-Bu and Me Bu esters which was then heated with p-toluidine and sapond. to give 2,5-bis(4-methylphenylamino)terephthalic acid in good yield and purity..

IT **10291-28-8P**, 2,5-Bis(4-methylphenylamino)terephthalic acid
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of quinacridone pigment intermediates)

RN 10291-28-8 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



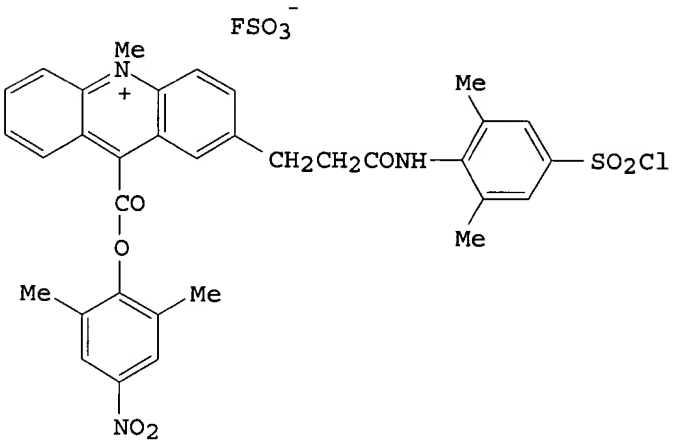

L15 ANSWER 23 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1994:557542 CAPLUS
DOCUMENT NUMBER: 121:157542
TITLE: Preparation of hydrolytically stable acridiniumcarboxylates as chemiluminescent labels and assays therefrom

INVENTOR(S): McCapra, Frank; Beheshti, Iraj
PATENT ASSIGNEE(S): London Diagnostics, Inc., USA
SOURCE: U.S., 33 pp. Cont.-in-part of U.S. Ser. No. 140,040, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| US 5284951 | A | 19940208 | US 1992-859956 | 19920330 | <-- |
| FR 2625565 | A1 | 19890707 | FR 1988-17502 | 19881230 | <-- |
| AU 8929270 | A1 | 19890801 | AU 1989-29270 | 19881230 | <-- |
| AU 635890 | B2 | 19930408 | | | |
| DE 3891212 | T | 19910110 | DE 1988-3891212 | 19881230 | <-- |
| JP 03501772 | T2 | 19910418 | JP 1989-501385 | 19881230 | <-- |
| JP 3172522 | B2 | 20010604 | | | |
| ZA 8900019 | A | 19891129 | ZA 1989-19 | 19890103 | <-- |
| GB 2232995 | A1 | 19910102 | GB 1990-14479 | 19900628 | <-- |
| GB 2232995 | B2 | 19921014 | | | |
| GB 2251942 | A1 | 19920722 | GB 1992-3180 | 19920214 | <-- |
| GB 2252161 | A1 | 19920729 | GB 1992-3179 | 19920214 | <-- |
| GB 2252162 | A1 | 19920729 | GB 1992-3181 | 19920214 | <-- |
| US 5321136 | A | 19940614 | US 1992-860410 | 19920330 | <-- |

PRIORITY APPLN. INFO.:
US 1987-140040 B2 19871231
US 1988-291843 B2 19881229
US 1989-418956 B2 19891010
WO 1988-US4719 A 19881230
GB 1990-14479 A3 19901230

OTHER SOURCE(S): MARPAT 121:157542
GI




I

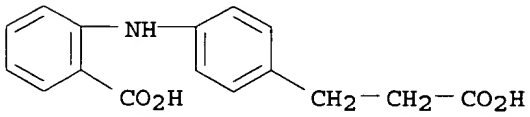
AB Claimed is a novel chemiluminescent compd. comprising an aryl ester, thioester, or amide of a carboxylic acid substituted heterocyclic ring that is susceptible to chem. attack to dissoc. the heterocyclic ring to a transient compd., wherein the heterocyclic ring is ring carbon-bonded to

the carbonyl of the ester, thioester or amide moiety and possesses a heteroatom in an oxidn. state that allows chemiluminescence by dissocg. a compd. at the carbon bonded to the carbonyl that decays to produce chemiluminescence, the aryl is a ring or ring system that is ring carbon-bonded to the oxygen, sulfur, or nitrogen of the ester, thioester, or amide, as the case may be, and contains diortho electron donating substitution in conjunction with meta and/or para substituents that possess a .sigma.p value greater than 0 and less than 1. Also described is a novel chemiluminescent labeling compn. comprising an ester, thioester or amide covalently and jointly bonded to (1) a carbon of a heterocyclic ring or ring system that is susceptible to attack by peroxide or mol. oxygen and (2) an aryl ring or ring system wherein the heterocyclic ring or ring system is distinguished by a heteroatom thereof in an oxidn. state which causes the attacked carbon atom to form an intermediate that decays and produces chemiluminescence; the aryl ring or ring system contains at least three substituents on a six-member arom. hydrocarbon that together sterically and electronically hinder hydrolysis of the linkage, which substituents involve ortho substituent groups on the aryl in conjunction with meta and/or para substituents thereon that possess an electron withdrawing capacity characterized as a .sigma.p value greater than 0 and less than 1. Anti-TSH antibody was labeled with title compd. I.

IT **126862-57-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, in prepn. of chemiluminescent label)

RN 126862-57-5 CAPLUS

CN Benzenepropanoic acid, 4-[(2-carboxyphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 24 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1992:633873 CAPLUS
DOCUMENT NUMBER: 117:233873
TITLE: N-Phenyl-9-oxoacridine-4-carboxamides, methods for their preparation and their use as neoplasm inhibitors and for increasing the sensitivity toward an antitumor drug or reversal of resistance to an antitumor drug
INVENTOR(S): Dumaitre, Bernard Andre; Dodic, Nerina
PATENT ASSIGNEE(S): Laboratoires Glaxo SA, Fr.
SOURCE: Eur. Pat. Appl., 82 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 494623 | A1 | 19920715 | EP 1992-100123 | 19920107 <-- |
| R: PT | | | | |
| CA 2100258 | AA | 19920712 | CA 1992-2100258 | 19920107 <-- |
| WO 9212132 | A1 | 19920723 | WO 1992-EP20 | 19920107 <-- |
| W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US | | | | |

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG

| | | | | |
|---|---|---|---|---|
| AU 9211543 | A1 | 19920817 | AU 1992-11543 | 19920107 <-- |
| AU 652996 | B2 | 19940915 | | |
| EP 569380 | A1 | 19931118 | EP 1992-901861 | 19920107 <-- |
| EP 569380 | B1 | 19970528 | | |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE

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|---|---|---|---|---|
| JP 06506440 | T2 | 19940721 | JP 1992-501671 | 19920107 <-- |
| JP 2783680 | B2 | 19980806 | | |
| HU 68856 | A2 | 19950828 | HU 1993-1989 | 19920107 <-- |
| PL 168202 | B1 | 19960131 | PL 1992-299989 | 19920107 <-- |
| PL 169396 | B1 | 19960731 | PL 1992-307547 | 19920107 <-- |
| AT 153660 | E | 19970615 | AT 1992-901861 | 19920107 <-- |
| ES 2104887 | T3 | 19971016 | ES 1992-901861 | 19920107 <-- |
| CZ 283038 | B6 | 19971217 | CZ 1993-1378 | 19920107 <-- |
| RU 2119482 | C1 | 19980927 | RU 1993-51543 | 19920107 <-- |
| SK 280864 | B6 | 20000814 | SK 1993-730 | 19920107 |
| ZA 9200183 | A | 19921028 | ZA 1992-183 | 19920110 <-- |
| IL 100631 | A1 | 19960912 | IL 1992-100631 | 19920110 <-- |
| CN 1081181 | A | 19940126 | CN 1992-109524 | 19920710 <-- |
| CN 1042421 | B | 19990310 | | |
| NO 9302512 | A | 19930909 | NO 1993-2512 | 19930709 <-- |
| US 5604237 | A | 19970218 | US 1995-468620 | 19950606 <-- |

PRIORITY APPLN. INFO.:

| | | |
|---|---|---|
| GB 1991-628 | A | 19910111 |
| GB 1991-637 | A | 19910111 |
| GB 1991-15956 | A | 19910724 |
| GB 1991-15981 | A | 19910724 |
| WO 1992-EP20 | A | 19920107 |
| US 1993-84258 | B1 | 19930726 |
| US 1994-348946 | A1 | 19941125 |

OTHER SOURCE(S): CASREACT 117:233873; MARPAT 117:233873

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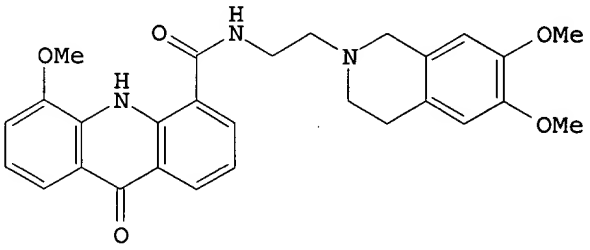


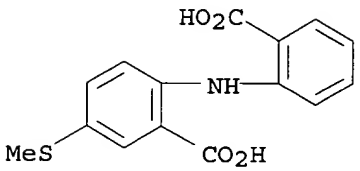

I

AB Certain N-phenyl-9-oxoacridine-4-carboxamide derivs. are claimed. The use of said compds. for the treatment of cancer, increasing the sensitivity toward an antitumor drug or to reverse the resistance to an antitumor drug is claimed. Pharmaceuticals contg. known neoplasm inhibitors, (alkaloids, anthracyclins, etc.) (i.e., drugs having a cross-resistance with the above drugs characterized by a multi drug-resistant phenotype) and said N-phenyl-9-oxoacridine-4-carboxamide derivs. are claimed. Thus, 9,10-dihydro-5-methoxy-9-oxo-N-[4-[2-(1,2,3,4-tetrahydro-6,7-dimethoxy-2-isoquinolinyl)ethyl]phenyl]-4-acridinecarboxamide (I) was prepd. in a multistep synthesis. I had cytotoxic activity in multidrug-resistant chinese hamster ovary cells.

IT **143667-03-2**

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn . of, as intermediate for N-phenyloxoacridinecarboxamide deriv.

(neoplasm inhibitor))
RN 143667-03-2 CAPLUS
CN Benzoic acid, 2-[(2-carboxyphenyl)amino]-5-(methylthio)- (9CI) (CA INDEX NAME)




L15 ANSWER 25 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1992:591483 CAPLUS
DOCUMENT NUMBER: 117:191483
TITLE: An environmentally improved process of preparing 2,5-di(phenylamino)terephthalic acids and dialkyl esters as high-purity products
INVENTOR(S): Arndt, Otto; Fuchs, Hermann; Gilb, Walter
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9209558 | A1 | 19920611 | WO 1991-EP2067 | 19911102 <-- |
| W: BR, CA, JP, KR, US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE | | | | |
| IN 177106 | A | 19961116 | IN 1991-CA823 | 19911101 <-- |
| CA 2096845 | AA | 19920524 | CA 1991-2096845 | 19911102 <-- |
| BR 9106992 | A | 19930824 | BR 1991-6992 | 19911102 <-- |
| EP 558511 | A1 | 19930908 | EP 1991-918521 | 19911102 <-- |
| EP 558511 | B1 | 19960417 | | |
| R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL | | | | |
| JP 05507285 | T2 | 19931021 | JP 1991-517673 | 19911102 <-- |
| JP 07091245 | B4 | 19951004 | | |
| IN 178203 | A | 19970315 | IN 1993-CA234 | 19930423 <-- |
| US 5347038 | A | 19940913 | US 1993-64116 | 19930520 <-- |

PRIORITY APPLN. INFO.: DE 1990-4037244 A 19901123
DE 1991-4101084 A 19910116
WO 1991-EP2067 A 19911102
OTHER SOURCE(S): MARPAT 117:191483
GI

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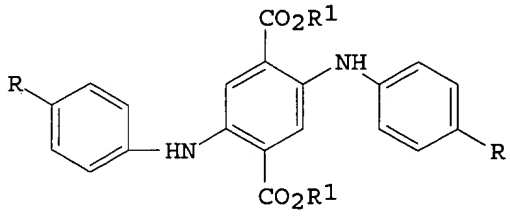


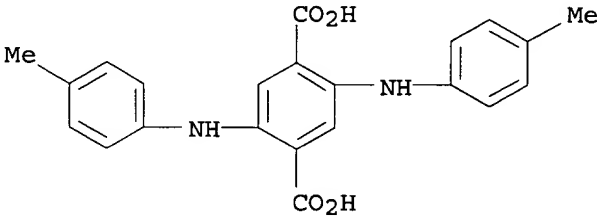
I

AB The title compds. (I; R = H, Me; R1 = H, Me, Et), useful as intermediates for quinacridone pigments, were prepd. by a process comprising (a) Dieckmann-type condensation of Me or Et succinate with a Na alcoholate in xylene to give di-Na salt of Me or Et 2,5-dihydroxycyclohexadiene-1,4-dicarboxylate, (b) treatment of the latter by a phenylamine 4-RC6H4NH2 (R as above) in the presence of an acid in xylene, (c) oxidative dehydrogenation by O (air) of the resulting Me or Et 2,5-di(phenylamino)dihydro-3,6-terephthalate to give Me or Et 2,5-di(phenylamino)terephthalate, (d) sapon. of the di-ester by methanolic NaOH, and (e) acidification of the di-Na salt to give the title acid. The process was environmentally improved in the above steps as follows: (a) di-esters were used in the next step without isolation from their mixts. with xylene, (b) the reaction of di-esters with phenylamines was carried out in the presence of EtCO2H or hexafluoropropanesulfonic acid catalysts, (c) 100% O(g) was used in a closed app. for the oxidative dehydrogenation of dihydroterephthalate esters by a gas mixt. contg. .ltoreq.8 vol.% O, in the presence of a solid catalyst, the resulting terephthalate diesters were sepd. by filtration in an aq. medium, and then purified on the filter by a steam blowing and washing with MeOH or EtOH. Thus, starting from di-Me 2,5-dihydroxycyclohexadiene-1,4-dicarboxylate ("SucEst"), <99% pure 2,5-di-p-toluidinoterephthalic and 2,5-dianilinoterephthalic acid were prepd. in >95% yield.

IT **10291-28-8P**, 2,5-Di-p-toluidinoterephthalic acid
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, process for, environmental pollution prevention in)

RN 10291-28-8 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



L15 ANSWER 26 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1992:448550 CAPLUS

DOCUMENT NUMBER: 117:48550

TITLE: Preparation of benzimidazoles as antihypertensives and angiotensin II receptor antagonists

INVENTOR(S): Franz, Robert Gene; Weinstock, Joseph

PATENT ASSIGNEE(S): SmithKline Beecham Corp., USA

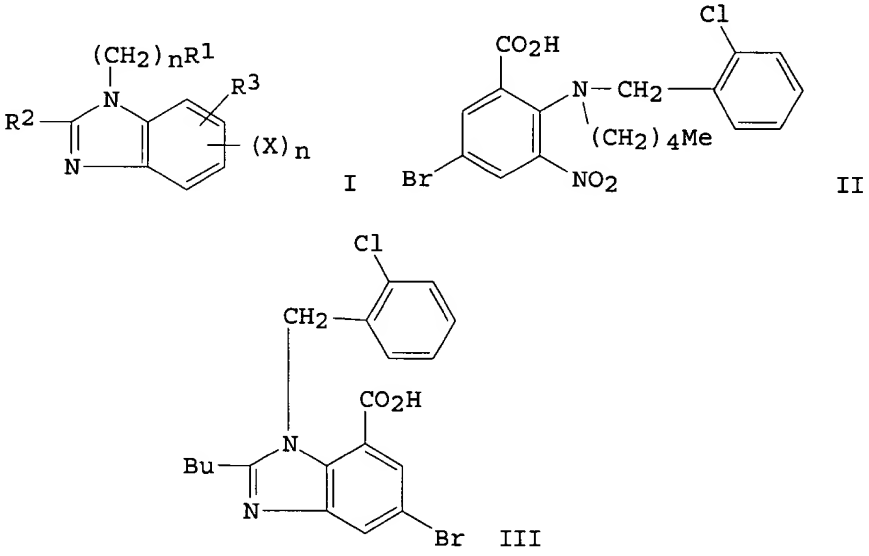
<N30/09/2003Page 43 16:36 <golam sha <mm/dd/yyyy

SOURCE: PCT Int. Appl., 62 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9116313 | A1 | 19911031 | WO 1991-US2396 | 19910408 <-- |
| W: AU, CA, JP, KR, US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE | | | | |
| AU 9177595 | A1 | 19911111 | AU 1991-77595 | 19910408 <-- |
| EP 525129 | A1 | 19930203 | EP 1991-919039 | 19910408 <-- |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| JP 05507469 | T2 | 19931028 | JP 1991-508599 | 19910408 <-- |
| ZA 9102656 | A | 19920325 | ZA 1991-2656 | 19910410 <-- |
| US 5294631 | A | 19940315 | US 1992-937885 | 19921013 <-- |

PRIORITY APPLN. INFO.: US 1990-509268 19900413
WO 1991-US2396 19910408

OTHER SOURCE(S): MARPAT 117:48550
GI

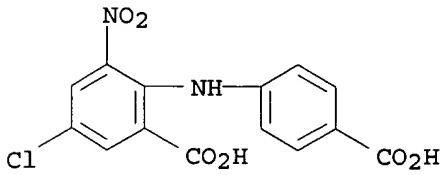



I II III

AB Benzimidazoles [I; R1 = (substituted) Ph, heterocyclyl, etc.; R2 = H, C2-10 alkyl, C3-10 alkenyl, C3-6 cycloalkyl, etc.; R3 = arylalkenyl, carboxyalkyl, (tetrazol-5-yl)alkyl, heterocyclylalkenyl, etc.; n = 0-2] are prepd. and formulated. A soln. of benzoic acid II in THF was dild. with 5% NaHCO3 and treated with NaHSO3 at pH 7.1, the mixt. was filtered, dild. with Et2O, the org. layer sepd., concd., dissolved in HOAc, and heated with HCl to give 37% benzimidazole III, which showed antihypertensive activity with IC30 of 32 mg/kg orally in rats.

IT **138992-96-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

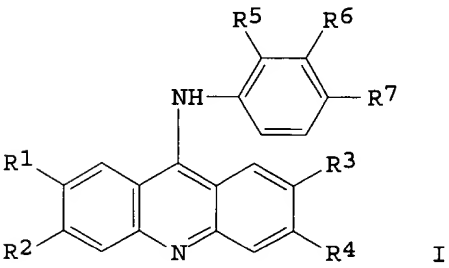
(prepn. and reaction of, in prepn. of angiotensin II antagonist)
RN 138992-96-8 CAPLUS
CN Benzoic acid, 2-[(4-carboxyphenyl)amino]-5-chloro-3-nitro- (9CI) (CA INDEX NAME)



L15 ANSWER 27 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1991:607871 CAPLUS
DOCUMENT NUMBER: 115:207871
TITLE: Potential anticancer agents derived from acridine
INVENTOR(S): Watanabe, Kyoichi A.; Takahashi, Kiyobumi
PATENT ASSIGNEE(S): Sloan-Kettering Institute for Cancer Research, USA
SOURCE: PCT Int. Appl., 124 pp.
CODEN: PIXXD2
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9105770 | A1 | 19910502 | WO 1990-US5958 | 19901017 <-- |
| W: AU, CA, HU, JP, KR, SU | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE | | | | |
| AU 9066260 | A1 | 19910516 | AU 1990-66260 | 19901017 <-- |
| US 5229395 | A | 19930720 | US 1991-754283 | 19910830 <-- |
| PRIORITY APPLN. INFO.: | | | US 1989-422629 | 19891017 |
| | | | WO 1990-US5958 | 19901017 |

OTHER SOURCE(S): MARPAT 115:207871
GI

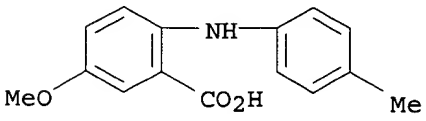


I

AB Numerous title compds. I [R1-R4 = H, lower alkyl, lower alkoxy; R5-R7 = H, (CH2)nOH, (CH2)nO2CNR8R9, R8,R9 = H, lower alkyl, n = 1-4] were prepd. from o-chlorobenzoic acids by sequential substitution with anilines, conversion to the piperides, cyclization by POCl3 to 9-chloroacridines, substitution by (hydroxyalkyl)anilines and optional conversion to carbamates.

<N30/09/2003Page 45 16:36 <golam sha <mm/dd/yyyy

IT **56980-16-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and conversion to piperide)
RN 56980-16-6 CAPLUS
CN Benzoic acid, 5-methoxy-2-[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)

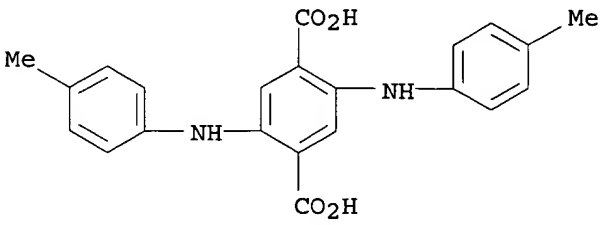



L15 ANSWER 28 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1991:6021 CAPLUS
DOCUMENT NUMBER: 114:6021
TITLE: Preparation of 2,5-diarylaminoterephthalic acids
INVENTOR(S): Schuetze, Detlef Ingo; Schmitz, Reinold
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 363756 | A2 | 19900418 | EP 1989-118109 | 19890929 <-- |
| EP 363756 | A3 | 19910327 | | |
| EP 363756 | B1 | 19921202 | | |
| R: CH, DE, FR, GB, LI | | | | |
| DE 3834747 | A1 | 19900503 | DE 1988-3834747 | 19881012 <-- |
| US 4981997 | A | 19910101 | US 1989-414825 | 19890929 <-- |
| JP 02169556 | A2 | 19900629 | JP 1989-264105 | 19891012 <-- |
| JP 2882535 | B2 | 19990412 | | |

PRIORITY APPLN. INFO.: DE 1988-3834747 19881012
OTHER SOURCE(S): CASREACT 114:6021; MARPAT 114:6021
AB The title compds., which are useful as intermediates in the prodn. of violet or red quinacridone pigments, are prepd. by oxidn. of 2,5-diarylamino-3,6-dihydroterephthalic acid esters with O or O-contg. gases, preferably air, in alc. alk. or alc. aq. alk. soln. or suspension in the presence of an O-transporting agent and a quaternary ammonium compd. Thus, 2,5-dianilinoterephthalic acid (I) was prepd. by passing air through a suspension contg. di-Et 2,5-dianilinoterephthalate, 14% aq. NaOH, anthraquinone-2-sulfonic acid, dodecylbenzyldimethylammonium chloride, and MeOH. The yield of I was 99%.
IT **10291-28-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for quinone pigments)
RN 10291-28-8 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)

<N30/09/2003Page 46 16:36 <golam shameem>dd/yyyy



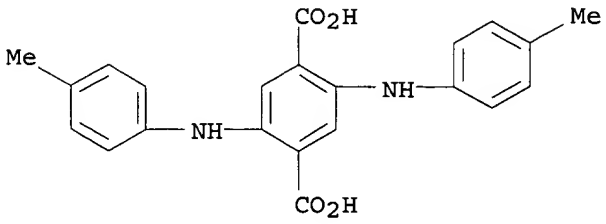

L15 ANSWER 29 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1990:499467 CAPLUS
DOCUMENT NUMBER: 113:99467
TITLE: 2,9-Dimethylquinacridone pigments with improved rheological properties
INVENTOR(S): Dietz, Erwin; Kroh, Adolf
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 362690 | A2 | 19900411 | EP 1989-117933 | 19890928 <-- |
| EP 362690 | A3 | 19910918 | | |
| EP 362690 | B1 | 19940810 | | |
| R: CH, DE, FR, GB, IT, LI | | | | |
| DE 3833423 | A1 | 19900419 | DE 1988-3833423 | 19881001 <-- |
| CA 1336776 | A1 | 19950822 | CA 1989-614210 | 19890928 <-- |
| JP 02123168 | A2 | 19900510 | JP 1989-252545 | 19890929 <-- |
| JP 2911500 | B2 | 19990623 | | |
| KR 9707345 | B1 | 19970507 | KR 1989-14001 | 19890929 <-- |
| US 5368641 | A | 19941129 | US 1992-995354 | 19921222 <-- |

PRIORITY APPLN. INFO.: DE 1988-3833423 A 19881001
US 1989-414754 B1 19890928
OTHER SOURCE(S): MARPAT 113:99467

AB The title pigments or mixed crystal pigments, having improved rheol. properties, useful in lacquers, coating materials, etc., having an av. crystal length-width ratio of <2:1 and av. particle size <0.4 .mu.m, are prepd. Thus, 135 parts wet crude 2,9-dimethylquinacridone (27.6%) was added to 240 parts iso-BuOH and stirred for 30 min at 25-30.degree.. Then, 1.96 parts (3'-dimethylaminopropyl)quinacridonebissulfonamide (I) powder was added, the mixt. stirred for 15 min, 2.9 parts 33% NaOH soln. and 59 parts H2O added, the mixt. heated to 90.degree. and stirred 1 h, heated to 115.degree. and stirred 3 h, the iso-BuOH distd., and the pigment filtered, producing a blue pigment having crystal length-width ratio 1.8:1, sp. surface area 92 m2/g, gloss (DIN 67530) 88, and rheol. 5, vs. 71, 4.5:1, 53, and 1 (nonflowing), resp., for a control pigment prepd. without I.

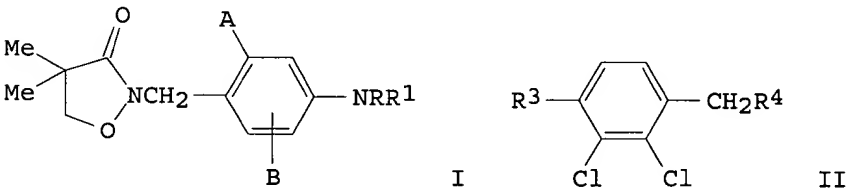
IT **10291-28-8**
RL: USES (Uses)
(pigments contg., manuf. of, with improved rheol. properties)
RN 10291-28-8 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



L15 ANSWER 30 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1990:216912 CAPLUS
DOCUMENT NUMBER: 112:216912
TITLE: Preparation of N-phenylmethyl-4,4-dimethyl-3-isoxazolidinones as plant growth regulators
INVENTOR(S): Chang, Jun H.; Baum, Jonathan S.
PATENT ASSIGNEE(S): FMC Corp., USA
SOURCE: U.S., 14 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4892578 | A | 19900109 | US 1987-118390 | 19871106 <-- |

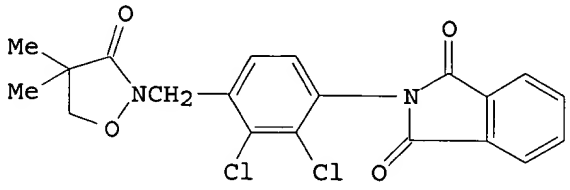
PRIORITY APPLN. INFO.: US 1987-118390 19871106
OTHER SOURCE(S): MARPAT 112:216912
GI



I



II



III

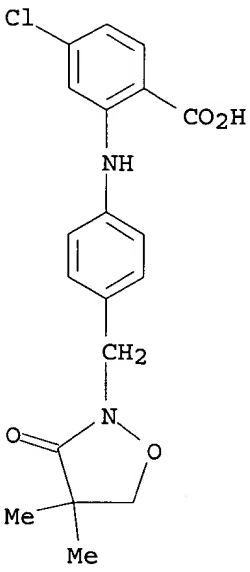
AB The title compds. [I; A, B = H, halo; AB = atoms to complete a fused benzene ring; R = H, alkyl; R1 = COYCO2R2, 1H-2-benzopyran-1-on-3-yl; R2 = H, Me, CHPh2, agrochem. acceptable cation; NRR1 = 2-hydroxyphenyl-, 4-halo-2-hydroxyphenyl-, or 2-thienylmethylimino, or phthalidylidenylamino; RR1 = COYCO; Y = (un)substituted alkylene, alkenylene, o-phenylenediyl, CH2OCH2, I in which A = Cl, B = H, and NRR1 = phthalimide-4,5-diyl, etc.] were prepd. Thus, dichlorotoluidine II (R3 =

NH2, R4 = H) was condensed with phthalic anhydride to give II [R3 = NHCOC6H4(CO2H)-2, R4 = H] which was refluxed 2 h with H2SO4 in MeOH to give II (R3 = phthalimido, R4 = H). The latter was refluxed 22 h with NBS in CCl4 contg. BzOOBz to give II (R3 = phthalimido, R4 = Br) which was condensed with 4,4-dimethyl-3-isoxazolidinone to give title compd. III which gave 5 morphol. responses, e.g., stunting, desiccation, etc., in soybeans at 8.0 kg/ha postemergent.

IT **126951-69-7P 126952-78-1P 126952-79-2P**
**126952-80-5P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as plant growth regulator)

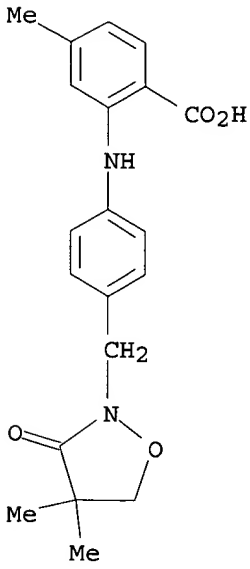
RN 126951-69-7 CAPLUS

CN Benzoic acid, 4-chloro-2-[[4-[(4,4-dimethyl-3-oxo-2-isoxazolidinyl)methyl]phenyl]amino]- (9CI) (CA INDEX NAME)

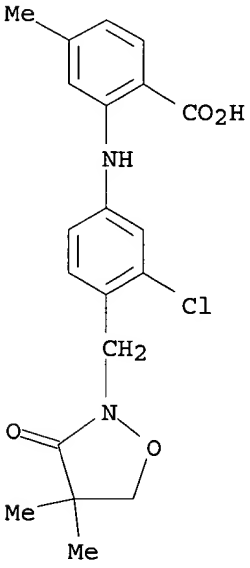



RN 126952-78-1 CAPLUS

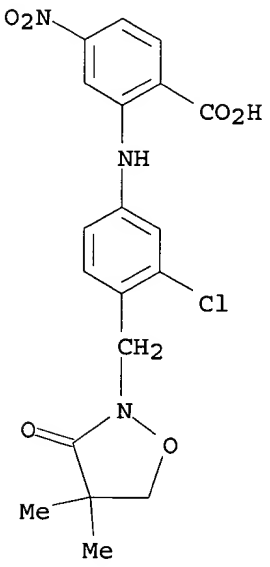
CN Benzoic acid, 2-[[4-[(4,4-dimethyl-3-oxo-2-isoxazolidinyl)methyl]phenyl]amino]-4-methyl- (9CI) (CA INDEX NAME)



RN 126952-79-2 CAPLUS
CN Benzoic acid, 2-[[3-chloro-4-[(4,4-dimethyl-3-oxo-2-isoxazolidinyl)methyl]phenyl]amino]-4-methyl- (9CI) (CA INDEX NAME)



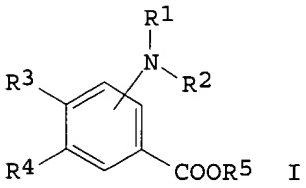
RN 126952-80-5 CAPLUS
CN Benzoic acid, 2-[[3-chloro-4-[(4,4-dimethyl-3-oxo-2-isoxazolidinyl)methyl]phenyl]amino]-4-nitro- (9CI) (CA INDEX NAME)



L15 ANSWER 31 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1988:143467 CAPLUS
DOCUMENT NUMBER: 108:143467
TITLE: Use of amino-substituted benzoates as remedy for diarrhea, and pharmaceuticals containing these compounds
INVENTOR(S): Englert, Heinrich Christian; Hropot, Max; Lang, Hans Jochen; Greger, Rainer
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 6 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 3608726 | A1 | 19870917 | DE 1986-3608726 | 19860315 <-- |
| EP 242559 | A2 | 19871028 | EP 1987-103389 | 19870310 <-- |
| EP 242559 | A3 | 19900523 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| DK 8701311 | A | 19870916 | DK 1987-1311 | 19870313 <-- |
| JP 62221659 | A2 | 19870929 | JP 1987-56948 | 19870313 <-- |
| US 4921875 | A | 19900501 | US 1987-25580 | 19870313 <-- |

PRIORITY APPLN. INFO.: DE 1986-3608726 19860315
GI



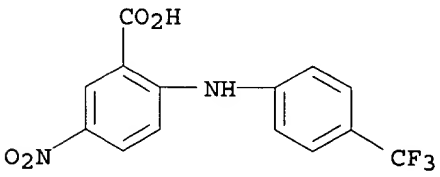
I

AB A remedy for diarrhea contains a compd. of formula I [NR1R2 is meta- or ortho- to carboxyl; R1, R2 = H, C1-6 alkyl (straight or branched chain), C4-8 cycloalkyl, (un)substituted Ph or naphthyl; R1R2 = (Me-substituted) (CH2)m, (CH:CH)n; m = 3-6; n = 2-3;; R3 = H, F, Cl, Br, I, C1-6 alkyl; R4 = H, NO2; R5 = H, physiol. cleavable group].

IT **107946-89-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, for treatment of diarrhea)

RN 107946-89-4 CAPLUS

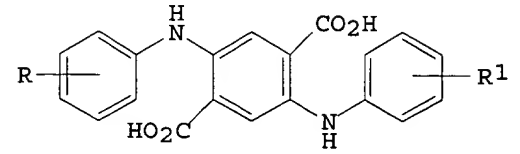
CN Benzoic acid, 5-nitro-2-[[4-(trifluoromethyl)phenyl]amino]- (9CI) (CA INDEX NAME)



L15 ANSWER 32 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1986:186319 CAPLUS
DOCUMENT NUMBER: 104:186319
TITLE: 2-Anilinoacridone
INVENTOR(S): Hoeltje, Wilfried G.
PATENT ASSIGNEE(S): Ciba-Geigy Corp. , USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4544746 | A | 19851001 | US 1982-378802 | 19820517 <-- |

PRIORITY APPLN. INFO.: US 1982-378802 19820517
GI



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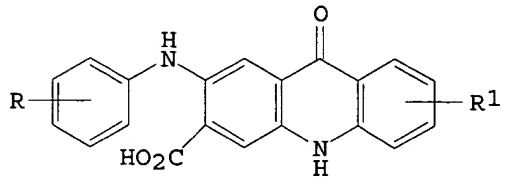

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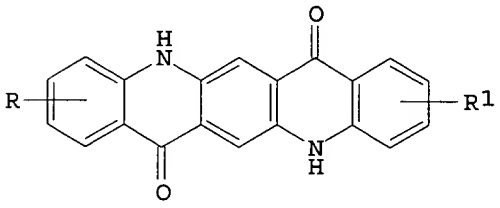


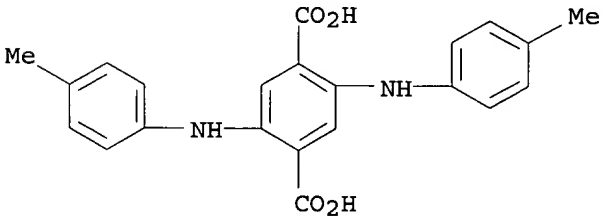
III

AB Half-cyclization of anilinoterephthalic acids I (R, R1 = H, Cl, C1-4 alkyl or alkoxy) in 50-75% polyphosphoric acid (PPA) and 50-25% H3PO4 at 100-120.degree. 5-90 min gave acridones II and a little quinacridones III. Thus, I (R = R1 = H) was half-cyclized in 135:65 mL PPA-85% H3PO4 to give 15% III and 74% II. Decarboxylation of II (R = R1 = H) by dissolving in tetramethylene sulfone and heating in the presence of Cu2(OH)2CO3 gave 93% 2-(phenylamino)-9(10H)-acridinone.

IT **10291-28-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(half-cyclization of)

RN 10291-28-8 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



L15 ANSWER 33 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1985:596074 CAPLUS
DOCUMENT NUMBER: 103:196074
TITLE: Pyrazolo[3,4,5-kl]acridine compounds and pharmaceutical compositions comprising them
INVENTOR(S): Capps, David B.
PATENT ASSIGNEE(S): Warner-Lambert Co. , USA
SOURCE: Eur. Pat. Appl., 102 pp.

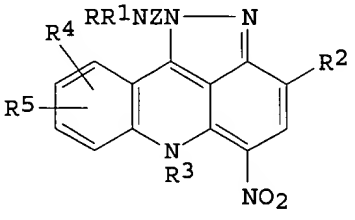
<N30/09/2003Page 53 16:36 <golam sha <mm/dd/yyyy

CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| EP 138302 | A1 | 19850424 | EP 1984-304784 | 19840713 | <-- |
| EP 138302 | B1 | 19880309 | | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | | |
| US 4555572 | A | 19851126 | US 1984-619258 | 19840615 | <-- |
| CA 1271476 | A1 | 19900710 | CA 1984-457484 | 19840626 | <-- |
| AU 8430564 | A1 | 19850124 | AU 1984-30564 | 19840713 | <-- |
| AU 569532 | B2 | 19880204 | | | |
| AT 32897 | E | 19880315 | AT 1984-304784 | 19840713 | <-- |
| DK 8403514 | A | 19850120 | DK 1984-3514 | 19840718 | <-- |
| DK 161384 | B | 19910701 | | | |
| DK 161384 | C | 19920106 | | | |
| JP 60069084 | A2 | 19850419 | JP 1984-147733 | 19840718 | <-- |
| JP 05059916 | B4 | 19930901 | | | |
| ES 534414 | A1 | 19861201 | ES 1984-534414 | 19840718 | <-- |
| US 4588730 | A | 19860513 | US 1985-768310 | 19850822 | <-- |
| ES 550774 | A1 | 19870216 | ES 1986-550774 | 19860110 | <-- |
| ES 550775 | A1 | 19870216 | ES 1986-550775 | 19860110 | <-- |
| ES 550776 | A1 | 19870301 | ES 1986-550776 | 19860110 | <-- |
| ES 550777 | A1 | 19870301 | ES 1986-550777 | 19860110 | <-- |
| US 4621086 | A | 19861104 | US 1986-821318 | 19860122 | <-- |
| JP 06041127 | A2 | 19940215 | JP 1993-82422 | 19930318 | <-- |
| JP 07030076 | B4 | 19950405 | | | |

PRIORITY APPLN. INFO.:
US 1983-515125 19830719
US 1984-619258 19840615
US 1983-545125 19830719
EP 1984-304784 19840713
US 1985-768310 19850822

OTHER SOURCE(S): CASREACT 103:196074
GI



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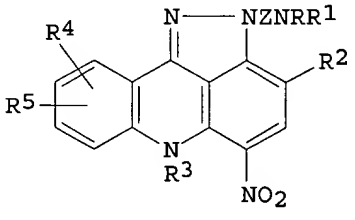
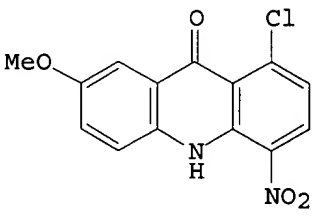


II



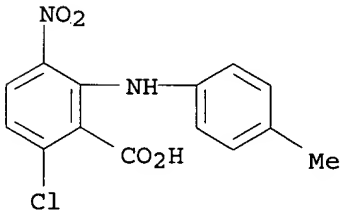
III

AB The title compds. [I and II; R, R1 = H, alkyl, hydroxyalkyl; RR1N = piperidino, pyrrolidino; R2 = H, NO2; R3 = H, alkyl; R4, R5 = H, alkyl, amino, trialkylsilyloxy, OH, esterified OH, (un)substituted alkoxy, PhCH2O; Z = alkylene] were prepd. Thus, 2,6,3-Cl2(O2N)C6H2CO2H was treated with 4-MeOC6H4NH2 to give 79% 6,3,2-Cl(O2N)(4-MeOC6H4NH)C6H2CO2H. This was cyclized by refluxing in PhCl/POCl3 to give 95% acridinone III, which was cyclocondensed with Et2NCH2CH2NHNH2 to give 79% II (R = R1 = Et, R2-R4 = H, R5 = 9-MeO, Z = CH2CH2) (IV). Mice infected with lymphocytic leukemia P388 and administered 50 mg IV/kg/day i.p. for 5 days had a life span 167% that of the controls.

IT **55830-46-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and cyclization of)

RN 55830-46-1 CAPLUS

CN Benzoic acid, 6-chloro-2-[(4-methylphenyl)amino]-3-nitro- (9CI) (CA INDEX NAME)




L15 ANSWER 34 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1984:103383 CAPLUS

DOCUMENT NUMBER: 100:103383

TITLE: Quinazolinone derivatives and their use in pharmaceuticals

INVENTOR(S): Opitz, Wolfgang; Jacobi, Haireddin; Pelster, Bernhard

PATENT ASSIGNEE(S): Troponwerke G.m.b.H. und Co. K.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 27 pp.
CODEN: GWXXBX

DOCUMENT TYPE: **Patent**

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| DE 3220438 | A1 | 19831201 | DE 1982-3220438 | 19820529 | <-- |
| US 4539402 | A | 19850903 | US 1983-492775 | 19830509 | <-- |
| EP 95641 | A1 | 19831207 | EP 1983-104794 | 19830516 | <-- |
| EP 95641 | B1 | 19870729 | | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE | | | | | |
| AT 28647 | E | 19870815 | AT 1983-104794 | 19830516 | <-- |
| JP 59042385 | A2 | 19840308 | JP 1983-92639 | 19830527 | <-- |

PRIORITY APPLN. INFO.: DE 1982-3220438 19820529
EP 1983-104794 19830516

OTHER SOURCE(S): CASREACT 100:103383

GI For diagram(s), see printed CA Issue.

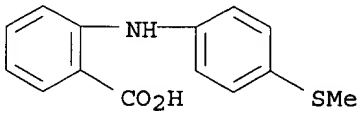
AB Title compds. I [Z forms an unsubstituted imidazo, dihydroimidazo, dihydropyrimido, or benzimidazo ring(s); R = haloalkyl, alkylthio,

alkylsulfinyl, alkylsulfonyl, NO2, (un)substituted amino] were prepd. and had antiphlogistic and analgesic activity. Thus, 2-(3-O2NC6H4NH)C6H4CO2H was treated with PCl5, then 2-methylthio-2-imidazoline to give the dihydroimidazoquinazolinone II, which had an ED50 of 1.3 mg/kg against carrageenan-induced edema and an ED50 of 0.5 mg/kg as a sedative.

IT **35958-19-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with phosphorus pentachloride)

RN 35958-19-1 CAPLUS

CN Benzoic acid, 2-[[4-(methylthio)phenyl]amino]- (9CI) (CA INDEX NAME)



L15 ANSWER 35 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1982:615761 CAPLUS

DOCUMENT NUMBER: 97:215761

TITLE: Dimethyl succinylsuccinate, its disodium salt, dianilinodihydroterephthalic acids, their dimethyl esters and salts, and dianilinoterephthalic acids, their dimethyl esters and salts

INVENTOR(S): Rolf, Meinhard; Schuetze, Detlef Ingo; Neeff, Ruetger; Runzheimer, Volker

PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.

SOURCE: Ger. Offen., 19 pp.
CODEN: GWXXBX

DOCUMENT TYPE: **Patent**

LANGUAGE: German

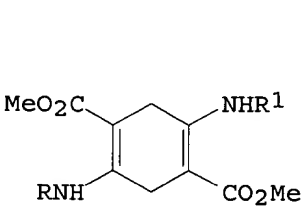
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| DE 3104644 | A1 | 19820819 | DE 1981-3104644 | 19810210 | <-- |
| US 4435589 | A | 19840306 | US 1982-341047 | 19820121 | <-- |
| EP 57873 | A1 | 19820818 | EP 1982-100611 | 19820129 | <-- |
| EP 57873 | B1 | 19840725 | | | |
| R: CH, DE, FR, GB | | | | | |
| JP 57149252 | A2 | 19820914 | JP 1982-18304 | 19820209 | <-- |
| JP 02044297 | B4 | 19901003 | | | |

PRIORITY APPLN. INFO.: DE 1981-3104644 19810210

GI



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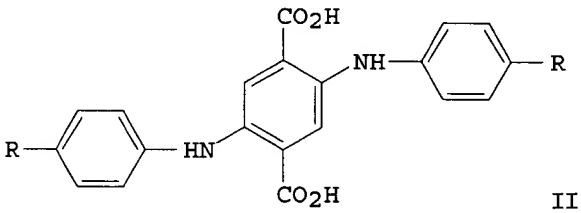


III

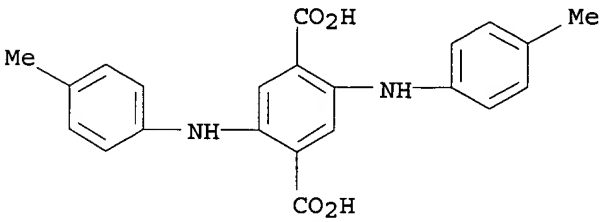
<N30/09/2003Page 56 16:36 <golam sha <mm/dd/yyyy

AB I (R, R1 = aryl) were prepd. Condensation of MeO2CCH2CH2CO2Me (II) with MeONa gave di-Me succinylsuccinate. Amination-cyclization of II with MeONa and RC6H4NH2 under N, followed by oxidn. with air in the presence of anthraquinone-2-sulfonic acid gave III (R = H, Cl, Me).

IT **10291-28-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 10291-28-8 CAPLUS

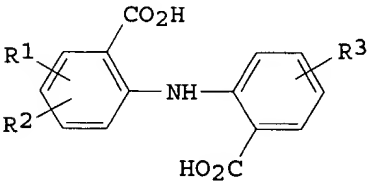
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



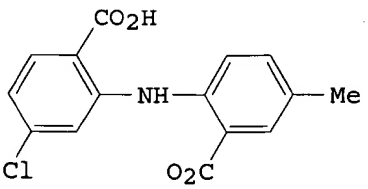

L15 ANSWER 36 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1982:411857 CAPLUS
DOCUMENT NUMBER: 97:11857
TITLE: Agent for treating peptic ulcers
INVENTOR(S): Tanemura, M.; Yamazaki, T.; Mizuno, K.; Kaiho, S.; Kakimoto, M.; Hoshino, E.; Matsunaga, I.; Hata, S.
PATENT ASSIGNEE(S): Chugai Pharmaceutical Co., Ltd. , Japan
SOURCE: Belg., 14 pp.
CODEN: BEXXAL
DOCUMENT TYPE: **Patent**
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| BE 891278 | A1 | 19820316 | BE 1981-206680 | 19811127 <-- |
| JP 57091914 | A2 | 19820608 | JP 1980-166662 | 19801128 <-- |
| US 4447453 | A | 19840508 | US 1981-322182 | 19811117 <-- |
| ZA 8108066 | A | 19821124 | ZA 1981-8066 | 19811120 <-- |
| DK 8105277 | A | 19820529 | DK 1981-5277 | 19811127 <-- |
| EP 53379 | A1 | 19820609 | EP 1981-109971 | 19811127 <-- |
| R: BE, CH, DE, FR, GB, IT, NL, SE | | | | |
| DE 3147133 | A1 | 19820616 | DE 1981-3147133 | 19811127 <-- |

PRIORITY APPLN. INFO.: JP 1980-166662 19801128
GI




I



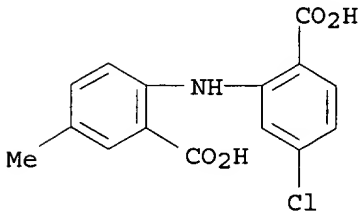

II

AB Aminobenzoic acid derivs. (I, R1, R2, or R3 = H, alkyl, alkoxy, or halogen) were prepd. having very low toxicity and high antiulcer activity. Thus, tablets were prepd. contg. II Na salt **[82050-63-3]** 100, lactose 46, cryst. cellulose 27, corn starch 5, and Mg stearate 2 g. Tablets (180 mg) were effective in ulcer treatment. The antiulcer potency of the aminobenzoates was tested in rats. I can be administered orally (250-750 mg/day) or i.v. (50-150 mg/day).

IT **82050-63-3**
RL: BIOL (Biological study)
(peptic ulcers treatment with)

RN 82050-63-3 CAPLUS

CN Benzoic acid, 2-[(2-carboxy-4-methylphenyl)amino]-4-chloro-, sodium salt (9CI) (CA INDEX NAME)

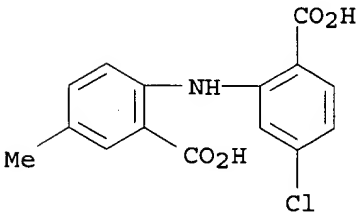



Ox Na

IT **82050-49-5P 82050-56-4P 82050-58-6P**
**82050-61-1P**
RL: PREP (Preparation)
(prepn. of, for peptic ulcer treatment)

RN 82050-49-5 CAPLUS

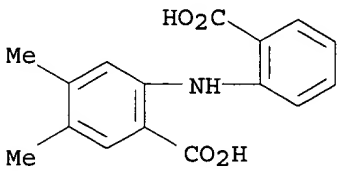
CN Benzoic acid, 2-[(2-carboxy-4-methylphenyl)amino]-4-chloro- (9CI) (CA INDEX NAME)



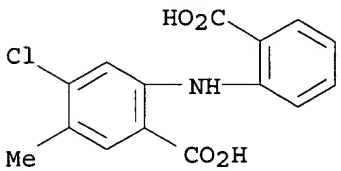

RN 82050-56-4 CAPLUS

CN Benzoic acid, 2-[(2-carboxyphenyl)amino]-4,5-dimethyl- (9CI) (CA INDEX NAME)

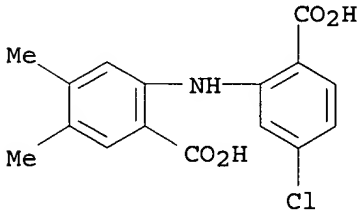
<N30/09/2003Page 58 16:36 <golam shamemm/dd/yyyy



RN 82050-58-6 CAPLUS
CN Benzoic acid, 2-[(2-carboxyphenyl)amino]-4-chloro-5-methyl- (9CI) (CA INDEX NAME)



RN 82050-61-1 CAPLUS
CN Benzoic acid, 2-[(2-carboxy-5-chlorophenyl)amino]-4,5-dimethyl- (9CI) (CA INDEX NAME)



L15 ANSWER 37 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1981:214626 CAPLUS
DOCUMENT NUMBER: 94:214626
TITLE: Pharmaceutical composition containing acridone and xanthone compounds
INVENTOR(S): Gorvin, John H.
PATENT ASSIGNEE(S): Burroughs Wellcome Co., USA
SOURCE: U.S., 14 pp. Division of U.S. 3,950,342.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4250182 | A | 19810210 | US 1975-643603 | 19751222 <-- |
| CA 1009660 | A1 | 19770503 | CA 1972-151209 | 19720907 <-- |
| US 3950342 | A | 19760413 | US 1973-338578 | 19730306 <-- |
| US 3987088 | A | 19761019 | US 1973-338414 | 19730306 <-- |
| AT 7502942 | A | 19761015 | AT 1975-2942 | 19750417 <-- |
| AT 337169 | B | 19770610 | | |

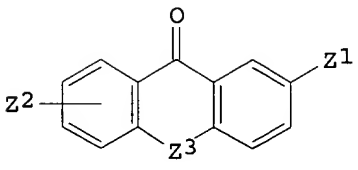
<N30/09/2003Page 59 16:36 <golam sha <mm/dd/yyyy

| | | | | | |
|---|---|---|---|---|---|
| AT 7502941 | A | 19761115 | AT 1975-2941 | 19750417 <-- |
| AT 337680 | B | 19770711 | | |
| CA 1009576 | A2 | 19770503 | CA 1975-238615 | 19751027 <-- |
| FI 7600877 | A | 19760401 | FI 1976-877 | 19760401 <-- |

PRIORITY APPLN. INFO.:

| | |
|---|---|
| GB 1972-8609 | 19720224 |
| GB 1972-8610 | 19720224 |
| US 1972-287043 | 19720709 |
| GB 1972-39940 | 19720829 |
| GB 1972-40079 | 19720829 |
| GB 1972-41852 | 19721108 |
| US 1973-338578 | 19730306 |
| GB 1971-41852 | 19710908 |
| GB 1972-8608 | 19720224 |
| GB 1972-14909 | 19720329 |
| GB 1972-35818 | 19720801 |
| GB 1972-33939 | 19720829 |
| AT 1972-7680 | 19720907 |
| CA 1972-151209 | 19720907 |
| FI 1972-2465 | 19720907 |
| US 1972-287042 | 19720907 |

GI

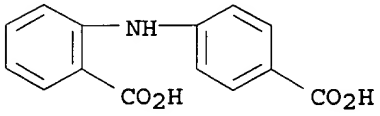



I

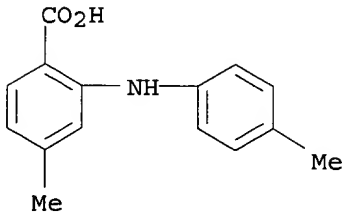
AB Acridone and xanthones I (Z1 = carboxyl, its salts, esters or amides; Z2 = same as Z1, H, NO2, CN, halo, acyl, alkyl, etc.; Z3 = O or NR where R = H or C1-4 alkyl) are useful for the relief or prophylaxis of allergic conditions. Xanthone 2,6-dicarboxylic acid (II) [33872-64-9] was prepd. by the hydrolyzing 9-oxoxanthene 2,6-dicarbonitrile [52156-60-2]. Alternatively, I was also prepd. by H2SO4 hydrolysis and cyclization of 2,5,4'-tricyanodiphenyl ether [42946-44-1] which was obtained by the condensation of p-NaOC6H4CN [3328-57-2] and 2-nitroterephthalodinitrile [4193-70-8]. A lotion for topical use was prepd. from II di-Na salt [42946-47-4] 1.5, sorbitan monolaurate 0.6, polysorbate 20, 0.6 cetostearyl alc. 1.2, glycerin 6, and Me hydroxybenzoate .apprx.0.2 g.

IT **17332-57-9 77769-89-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of)

RN 17332-57-9 CAPLUS
CN Benzoic acid, 2-[(4-carboxyphenyl)amino]- (9CI) (CA INDEX NAME)




RN 77769-89-2 CAPLUS
CN Benzoic acid, 4-methyl-2-[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



L15 ANSWER 38 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1980:496942 CAPLUS
DOCUMENT NUMBER: 93:96942
TITLE: Quinacridone pigment mixture
INVENTOR(S): Fuchs, Otto; Kroh, Adolf
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| DE 2842468 | A1 | 19800410 | DE 1978-2842468 | 19780929 | <-- |
| EP 9720 | A1 | 19800416 | EP 1979-103528 | 19790919 | <-- |
| EP 9720 | B1 | 19820929 | | | |
| R: BE, CH, DE, FR, GB | | | | | |
| JP 55048250 | A2 | 19800405 | JP 1979-124294 | 19790928 | <-- |
| JP 63018628 | B4 | 19880419 | | | |
| BR 7906238 | A | 19800527 | BR 1979-6238 | 19790928 | <-- |
| US 4400515 | A | 19830823 | US 1981-237505 | 19810223 | <-- |

PRIORITY APPLN. INFO.: DE 1978-2842468 19780929
US 1979-79592 19790927

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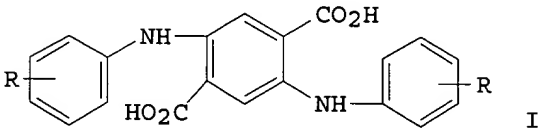

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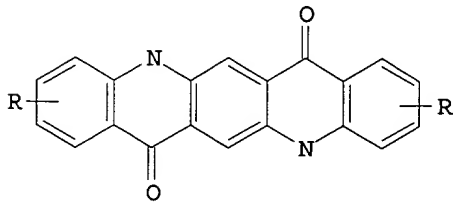


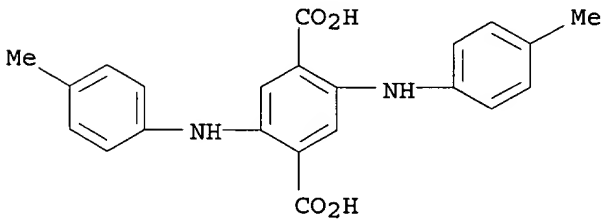
II

AB Mixts. of I (R = Me, Cl) and I (R = CONH2, substituted carbamoyl) are cyclized by treatment with an acidic condensation agent to give mixts. of II (R = Me, Cl) and II (R = CONH2, substituted carbamoyl), which are

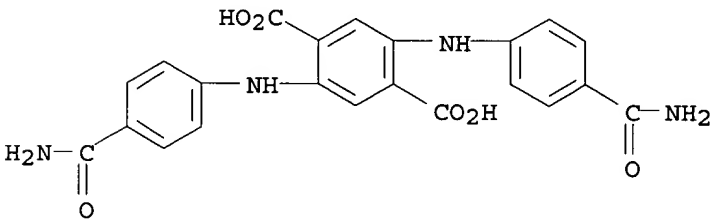
useful as pigments with high transparency, rheol. properties, and fastness. Thus, 47 parts 2,5-bis(4-methylphenylamino)terephthalic acid [**10291-28-8**] and 3 parts 2,5-bis(4-carbamoylphenylamino)terephthalic acid [**74539-46-1**] were stirred 2 h at 125.degree. with 150 parts polyphosphoric acid, giving after purifn. a bluish-red pigment which was easily incorporated into coating materials and had excellent fastness.

IT **10291-28-8 74539-46-1 74539-47-2 74539-50-7 74539-52-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, with acid condensing agent)

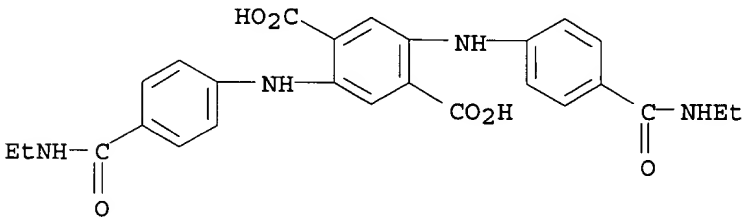
RN 10291-28-8 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



RN 74539-46-1 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-(aminocarbonyl)phenyl]amino]- (9CI) (CA INDEX NAME)

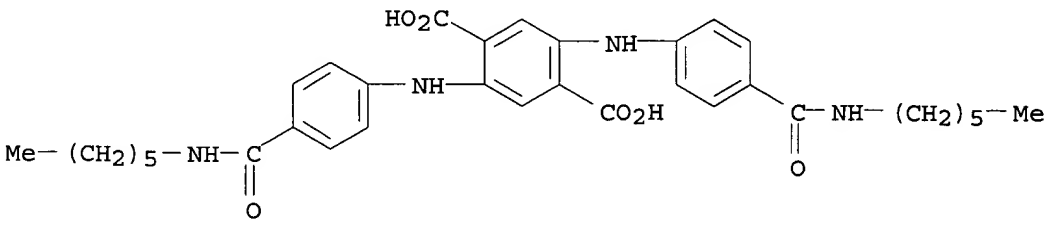


RN 74539-47-2 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-[(ethylamino)carbonyl]phenyl]amino]- (9CI) (CA INDEX NAME)

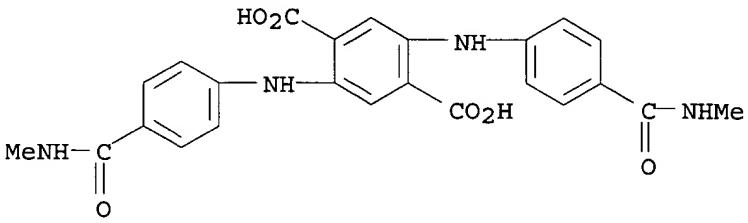


RN 74539-50-7 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-[(hexylamino)carbonyl]phenyl]amino]- (9CI) (CA INDEX NAME)

<N30/09/2003Page 62 16:36 <golam sha <mm/dd/yyyy



RN 74539-52-9 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[[4-[(methylamino)carbonyl]phenyl]amino]- (9CI) (CA INDEX NAME)



L15 ANSWER 39 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1978:106758 CAPLUS
DOCUMENT NUMBER: 88:106758
TITLE: Quinacridone and its derivatives
INVENTOR(S): Gerson, Herman; Santimauro, John Francis; Lerner, Lawrence Robert
PATENT ASSIGNEE(S): Harmon Colors Corp., USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| US 4064129 | A | 19771220 | US 1976-724150 | 19760917 | <-- |
| GB 1542776 | A | 19790328 | GB 1977-37537 | 19770908 | <-- |
| DE 2740710 | A1 | 19780323 | DE 1977-2740710 | 19770909 | <-- |
| CH 629838 | A | 19820514 | CH 1977-11157 | 19770913 | <-- |
| JP 53037730 | A2 | 19780407 | JP 1977-110642 | 19770916 | <-- |
| JP 60034585 | B4 | 19850809 | | | |
| FR 2364900 | A1 | 19780414 | FR 1977-28023 | 19770916 | <-- |
| FR 2364900 | B1 | 19810320 | | | |
| BR 7706213 | A | 19780704 | BR 1977-6213 | 19770916 | <-- |

PRIORITY APPLN. INFO.: US 1976-724150 19760917

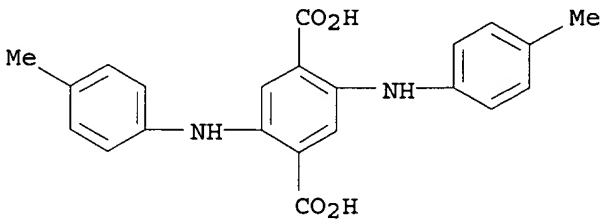
AB Quinacridone (I) [1047-16-1] and its 2,9-dimethyl- [980-26-7] and 2,9-dichloro- [3089-17-6] derivs. are prepd. in high purity and yield by heating the corresponding 2,5-bis(arylamino)terephthalic acid in the presence of a sulfonic acid or HClO4 catalyst in a 2-phase liq. system comprising ethylene glycol (II) [107-21-1] and a H2O- and II-immiscible org. solvent at a temp. sufficient to remove the by-product H2O from the reaction by vaporization. Thus, I was prepd. in 94.4% yield by using II-perchloroethylene [127-18-4] solvent system and p-toluenesulfonic acid

monohydrate [6192-52-5] as catalyst with 2,5-dianilinoterephthalic acid [10109-95-2] as starting material.

IT **10291-28-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, to dimethylquinacridone)

RN 10291-28-8 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)



L15 ANSWER 40 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1976:600569 CAPLUS

DOCUMENT NUMBER: 85:200569

TITLE: Light-sensitive color-forming recording material

INVENTOR(S): Tsunoda, Takahiro; Ozutsumi, Minoru; Maeda, Shigeo; Suzuka, Susumu; Komiya, Hidetoshi

PATENT ASSIGNEE(S): Hodogaya Chemical Co., Ltd., Japan; Oji Paper Co., Ltd.

SOURCE: Ger. Offen., 28 pp.
CODEN: GWXXBX

DOCUMENT TYPE: **Patent**

LANGUAGE: German

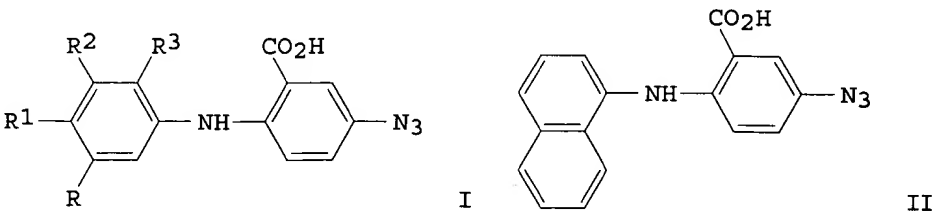
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| DE 2539602 | A1 | 19760325 | DE 1975-2539602 | 19750905 | <-- |
| DE 2539602 | B2 | 19770127 | | | |
| DE 2539602 | C3 | 19770915 | | | |
| JP 51030723 | A2 | 19760316 | JP 1974-102911 | 19740909 | <-- |
| JP 52036697 | B4 | 19770917 | | | |
| US 4003747 | A | 19770118 | US 1975-610400 | 19750904 | <-- |

PRIORITY APPLN. INFO.: JP 1974-102911 19740909

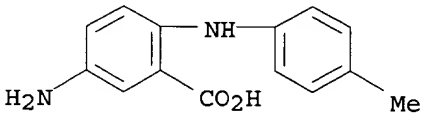
GI



AB A light-sensitive color-forming recording material is described which

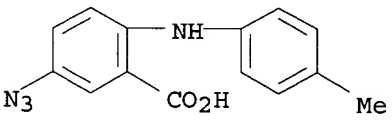
consists of a support coated with a light-sensitive layer contg. a color-forming coupler, an azide I (R,R2 = H, Me; R1 = H, Cl, HO, MeO, Et2N, Me; (R3 = H, MeO) or II, and a binder. This material is esp. useful in prepg. photoresists and printing plates. Thus, a light-sensitive, color-forming soln. composed of II 1.5, 4-methoxy-1-naphthol 1.0, a cresol-modified novolak resin 5.0, and ethylene glycol monomethyl ether 6.5 parts was whirl-coated on a poly(ethylene terephthalate) film support, dried at 50.degree. to give a film thickness of 3.5 .mu., exposed to a neg. for 90 sec at 1 m using a 2 kW superhigh-pressure Hg lamp, and then deveoped with a 1.4% aq. Na3PO4 soln. to remove the nonexposed areas and give a dark green relief image.

IT **61058-65-9**
RL: USES (Uses)
(diazotization and reaction of, with sodium azide)
RN 61058-65-9 CAPLUS
CN Benzoic acid, 5-amino-2-[(4-methylphenyl)amino]-, hydrochloride (9CI) (CA INDEX NAME)




Ox HCl

IT **58211-72-6**
RL: USES (Uses)
(photosensitive color-forming compns. contg. color-forming coupler, phenolic resin binder, and, for photoresists and printing plates)
RN 58211-72-6 CAPLUS
CN Benzoic acid, 5-azido-2-[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 41 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1976:422330 CAPLUS
DOCUMENT NUMBER: 85:22330
TITLE: Lubricant compositions containing N-substituted naphthylamines as antioxidants
INVENTOR(S): Wheeler, Edward L.
PATENT ASSIGNEE(S): Uniroyal, Inc., USA
SOURCE: U.S., 10 pp. Division of U.S. 3,666,716.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| US 3944492 | A | 19760316 | US 1972-255494 | 19720522 <-- |
| US 3505225 | A | 19700407 | US 1966-540817 | 19660407 <-- |
| US 3666716 | A | 19720530 | US 1970-2382 | 19700112 <-- |
| US 3781361 | A | 19731225 | US 1972-255495 | 19720522 <-- |

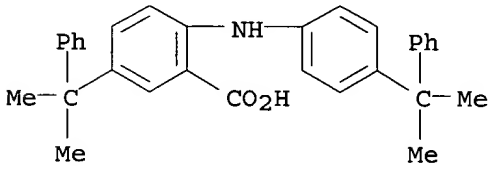
PRIORITY APPLN. INFO.: US 1966-540817 19660407
US 1970-2382 19700112

AB Alkylation of the appropriate diphenylamine or phenylnaphthylamine with the appropriate olefin gave compds. useful as antioxidants or heat stabilizers for thermoplastic polymers, rubbers, and lubricating oils. Thus, Celcon CKX-205 (I) [59537-39-2] (a polyoxymethylene) contg. 0.5% 4-(1,1,3,3-tetramethylbutyl)-4'-triphenylmethyldiphenylamine (II) [17419-18-0] (prepd. by reaction of Ph2NH [122-39-4] with diisobutylene [25167-70-8] followed by reaction of the product with Ph3CCl [76-83-5]) lost 0.84% wt. after 45 min at 230.degree. compared with 31.9 or 2.24% wt. loss for I samples contg. no stabilizer or Santowhite Powder, resp.

IT **17419-21-5**
RL: USES (Uses)
(antioxidants and heat stabilizers, for thermoplastic polymers, rubbers and lubricating oils)

RN 17419-21-5 CAPLUS

CN Benzoic acid, 5-(1-methyl-1-phenylethyl)-2-[[4-(1-methyl-1-phenylethyl)phenyl]amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 42 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1976:52131 CAPLUS
DOCUMENT NUMBER: 84:52131
TITLE: Light-sensitive, color-forming recording material
INVENTOR(S): Tsunoda, Takahiro; Ozutsumi, Minoru; Maeda, Shigeo; Suzuka, Susumu; Komiya, Hidetoshi; Shinohara, Hideaki
PATENT ASSIGNEE(S): Hodogaya Chemical Co., Ltd., Japan; Oji Paper Co., Ltd.
SOURCE: Ger. Offen., 44 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2450430 | A1 | 19750507 | DE 1974-2450430 | 19741023 <-- |
| DE 2450430 | B2 | 19760311 | | |
| DE 2450430 | C3 | 19781214 | | |
| JP 50070105 | A2 | 19750611 | JP 1973-119543 | 19731024 <-- |
| JP 51016801 | B4 | 19760527 | | |
| JP 51006718 | A2 | 19760120 | JP 1974-77407 | 19740708 <-- |
| JP 52039290 | B4 | 19771004 | | |
| US 4019907 | A | 19770426 | US 1974-515571 | 19741017 <-- |
| GB 1470340 | A | 19770414 | GB 1974-45444 | 19741021 <-- |

PRIORITY APPLN. INFO.: JP 1973-119543 19731024

<N30/09/2003Page 66 16:36 <golam sha <mm/dd/yyyy

JP 1974-77407 19740708

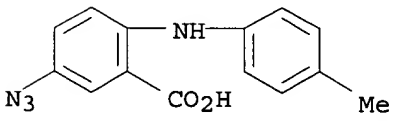
GI For diagram(s), see printed CA Issue.

AB A light-sensitive color-forming recording material composed of a support coated with a layer contg. an azide (I; R = H, alkoxycarbonyl, Me, MeCo, MeSO2, Et2NCO, aryloxysulfonyl, CO2H p-MeOC6H4O2C; R1 = Ph, substituted Ph, 1-naphthyl, substituted 1-naphthyl) and a resin is described. The material is esp. useful for the prepn. of photoresists or relief images for printing. Thus, a soln. contg. I (R = CO2H; R1 = p-MeC6H4) 5, a phenolic resin 8, cyclohexanone 30, and ethylene glycol monoethyl ether 60 parts was coated on a treated 1.0 mm Zn plate at 75 rpm, hot-air dried at 80.degree., exposed for 90 sec through a neg. original at 1 m using a 2-kw super high-pressure Hg lamp, developed in a 2% aq. Na metasilicate soln., and washed to give a hard, black relief image.

IT **58211-72-6**
RL: USES (Uses)
(photosensitive compns. contg. phenolic resins and, for printing plates)

RN 58211-72-6 CAPLUS

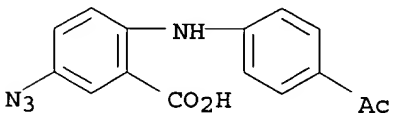
CN Benzoic acid, 5-azido-2-[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




IT **57392-63-9**
RL: USES (Uses)
(photosensitive compns. contg., for photoduplication)

RN 57392-63-9 CAPLUS

CN Benzoic acid, 2-[(4-acetylphenyl)amino]-5-azido- (9CI) (CA INDEX NAME)




L15 ANSWER 43 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1976:43882 CAPLUS

DOCUMENT NUMBER: 84:43882

TITLE: Intermediates for preparing acridines

INVENTOR(S): Anderson, Elvin L.; Graboyes, Harold

PATENT ASSIGNEE(S): Smithkline Corp., USA

SOURCE: U.S., 6 pp. Division of U.S. 3,781,358.
CODEN: USXXAM

DOCUMENT TYPE: **Patent**

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| US 3919312 | A | 19751111 | US 1973-395483 | 19730910 | <-- |
| US 3625945 | A | 19711207 | US 1968-732869 | 19680529 | <-- |
| US 3692834 | A | 19720919 | US 1971-118976 | 19710225 | <-- |
| US 3781358 | A | 19731225 | US 1972-267852 | 19720630 | <-- |

<N30/09/2003Page 67 16:36 <golam sha <mm/dd/yyyy

PRIORITY APPLN. INFO.: US 1968-732869 19680529
US 1971-118976 19710225
US 1972-267852 19720630

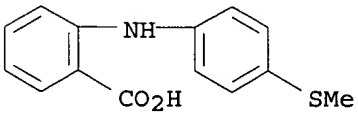
GI For diagram(s), see printed CA Issue.

AB Successive reaction of 4-ClC6H4NHC6H4CO2H-2 with SOCl2 and 4-MeC6H4SO2NHNH2 gave 2-(4-ClC6H4NH)C6H4CONHNHSO2C6H4Me-4, which was refluxed with N2H4.H2O in EtOCH2CH2OH-H2O contg. NaOH to give the azine [2-(4-ClC6H4NH)C6H4CH:N]2; the latter underwent decompn.-cyclization in refluxing HOAc-HCl to give the acridine I (R = 2-Cl) (II). Alternately, acid catalyzed decompn.-cyclization of 2-(4-ClC6H4NH)C6H4CH:NNHCONH2 or 2-(4-ClC6H4NH)C6H4CH:NNHPh gave II. I (R = 2-CF3, 2-Bu, 4-Cl, 4-CF3, 1-Br, 2-Me, 4-MeO, 2-Me2NSO2, H) were prepd. similarly.

IT **35958-19-1 57975-93-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(acyl chlorination and reaction with toluenesulfonylhydrazine)

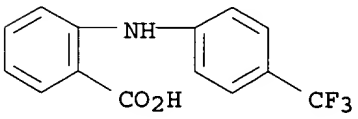
RN 35958-19-1 CAPLUS

CN Benzoic acid, 2-[[4-(methylthio)phenyl]amino]- (9CI) (CA INDEX NAME)




RN 57975-93-6 CAPLUS

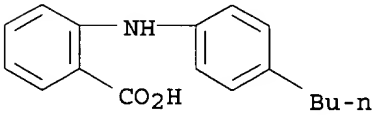
CN Benzoic acid, 2-[[4-(trifluoromethyl)phenyl]amino]- (9CI) (CA INDEX NAME)




IT **17332-55-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, acyl chlorination and reaction with toluenesulfonylhydrazine)

RN 17332-55-7 CAPLUS

CN Benzoic acid, 2-[(4-butylphenyl)amino]- (9CI) (CA INDEX NAME)



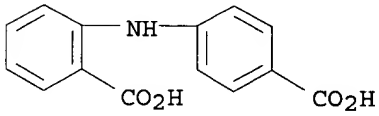

L15 ANSWER 44 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1975:531486 CAPLUS
DOCUMENT NUMBER: 83:131486
TITLE: Acridone carboxylic acids and derivatives
INVENTOR(S): Pfister, Jurg R.; Harrison, Ian T.; Fried, John H.
PATENT ASSIGNEE(S): Syntex (U.S.A.), Inc., USA
SOURCE: U.S., 15 pp. Division of U.S. 3,835,139.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English

<N30/09/2003Page 68 16:36 <golam sha <mm/dd/yyyy

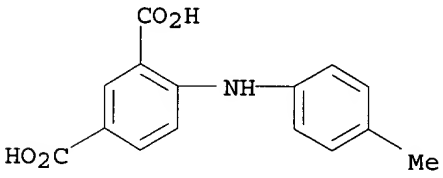
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 3886162 | A | 19750527 | US 1974-450352 | 19740312 <-- |
| US 3835139 | A | 19740910 | US 1972-273291 | 19720719 <-- |

PRIORITY APPLN. INFO.: US 1972-273291 19720719
GI For diagram(s), see printed CA Issue.
AB The acridones I (R = H, Me; R1 = H, Me; R2 = H, Me, MeCO, HS, MeSO2, etc.) were prepd. Thus, 2,4-(HO2C)2C6H3Br was treated with p-MeC6H4NH2 to give 2,4-(HO2C)2C6H3NHC6H4Me-p, which was cyclized with H2SO4 to give I (R = R1 = H, R2 = Me). At 100 mg/hr I (R = R2 = H, R1 = Me), reduced histamine diphosphate induced allergy in guinea pigs.
IT **17332-57-9P 54328-68-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and cyclization of)
RN 17332-57-9 CAPLUS
CN Benzoic acid, 2-[(4-carboxyphenyl)amino]- (9CI) (CA INDEX NAME)




RN 54328-68-6 CAPLUS
CN 1,3-Benzenedicarboxylic acid, 4-[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 45 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1975:18623 CAPLUS
DOCUMENT NUMBER: 82:18623
TITLE: Mixtures of pigments derived from quinacridone
PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.
SOURCE: Fr. Demande, 14 pp.
CODEN: FRXXBL
DOCUMENT TYPE: **Patent**
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| FR 2154787 | A1 | 19730511 | FR 1972-34847 | 19721002 <-- |
| FR 2154787 | B1 | 19760521 | | |
| DE 2148866 | A1 | 19730412 | DE 1971-2148866 | 19710930 <-- |
| JP 48043417 | A2 | 19730623 | JP 1972-96705 | 19720928 <-- |

| | | | | |
|---|---|---|---|---|
| JP 57048588 | B4 | 19821016 | | |
| IT 967975 | A | 19740311 | IT 1972-29824 | 19720928 <-- |
| US 3836379 | A | 19740917 | US 1972-293135 | 19720928 <-- |
| CH 574987 | A | 19760430 | CH 1972-14207 | 19720928 <-- |
| BR 7206785 | A0 | 19730726 | BR 1972-6785 | 19720929 <-- |
| GB 1404985 | A | 19750903 | GB 1972-45091 | 19720929 <-- |

PRIORITY APPLN. INFO.: DE 1971-2148866 19710930

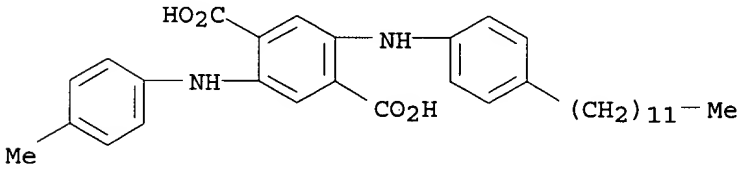
GI For diagram(s), see printed CA Issue.

AB Mixts. of quinacridone pigments I (R = R1 = H, Me, Cl) contg. 0.5-15% quinacridone I (R = dodecyl, heptyl, octadecyl; R1 = H, heptyl)(II) gave pigments of greater color strength transparency, and flocculation resistance than when II was omitted. Thus, a mixt. of aniline [62-53-3] and p-dodecylaniline [104-42-7] was treated with diethyl succinosuccinate [787-07-5] to give 2-anilino-5-(p-dodecylanilino)terephthalic acid (III) [**40703-91-1**], 5 parts III and 95 parts 2,5-bis(p-toluidino)terephthalic acid [**10291-28-8**] were heated in molten AlCl3 to give a pigment mixt. I(R = R1 = Me), I(R = dodecyl, R1 = H) [39456-53-6]. This mixt. had a greater transparency, color strength and flocculation resistance than I (R = R1 = Me) alone.

IT **53642-11-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, in the presence of ditoluidinoterephthalic acid)

RN 53642-11-8 CAPLUS

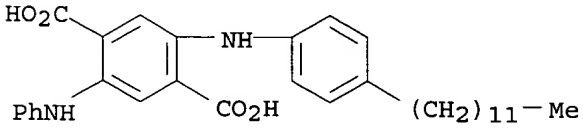
CN 1,4-Benzenedicarboxylic acid, 2-[(4-dodecylphenyl)amino]-5-[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




IT **40703-91-1P 43002-40-0P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

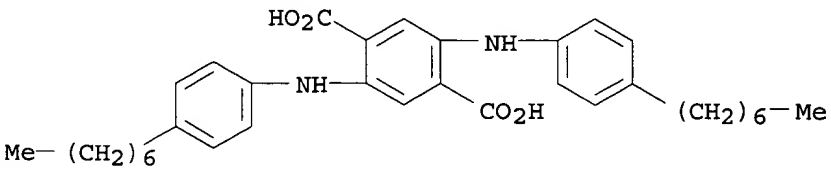
RN 40703-91-1 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2-[(4-dodecylphenyl)amino]-5-(phenylamino)- (9CI) (CA INDEX NAME)

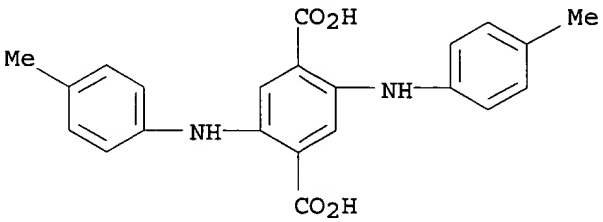



RN 43002-40-0 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-heptylphenyl)amino]- (9CI) (CA INDEX NAME)



IT **10291-28-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with aluminum chloride in the presence of anilino(dodecylanilino)terephthalic acid)
RN 10291-28-8 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)

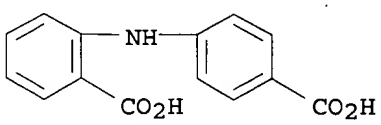


L15 ANSWER 46 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1975:16711 CAPLUS
DOCUMENT NUMBER: 82:16711
TITLE: N-Substituted acridone carboxylic acids and derivatives
INVENTOR(S): Pfister, Jurg R.; Harrison, Ian T.; Fried, John H.
PATENT ASSIGNEE(S): Syntex (U.S.A.) Inc.
SOURCE: U.S., 15 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

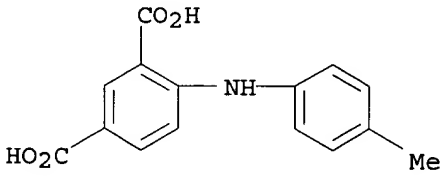
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 3835139 | A | 19740910 | US 1972-273291 | 19720719 <-- |
| GB 1417201 | A | 19751210 | GB 1973-386 | 19730103 <-- |
| US 3886162 | A | 19750527 | US 1974-450352 | 19740312 <-- |

PRIORITY APPLN. INFO.: US 1972-273291 19720719
GI For diagram(s), see printed CA Issue.
AB Antiallergic acridinecarboxylates (I, R = lower alkyl; R1 = lower alkyl, cycloalkyl, alkoxy, alkylthio, SH, CF3; R2 = H, Me, Na, NH4) were prepd. Thus, 4-BrC6H4CO2H and 2-H2NC6H4CO2H were heated with Cu powder and K2CO3 in DMF to give 4-(2-carboxyphenylamino)benzoic acid, which was cyclized in concd. H2SO4 to give I (R-R2 = H). Guinea pigs treated with I (R = Me, R1 = R2 = H) at 100 mg/kg i.p. exhibited a significant resistance to a histamine aerosol challenge.
IT **17332-57-9P 54328-68-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and cyclization of)
RN 17332-57-9 CAPLUS
CN Benzoic acid, 2-[(4-carboxyphenyl)amino]- (9CI) (CA INDEX NAME)




RN 54328-68-6 CAPLUS
CN 1,3-Benzenedicarboxylic acid, 4-[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 47 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1973:526333 CAPLUS
DOCUMENT NUMBER: 79:126333
TITLE: Tricyclic compounds
INVENTOR(S): Hodson, Harold Francis; Batchelor, John Frederick; Gorvin, John Henry
PATENT ASSIGNEE(S): Wellcome Foundation Ltd.
SOURCE: Ger. Offen., 127 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| DE 2243997 | A1 | 19730315 | DE 1972-2243997 | 19720907 | <-- |
| BE 788514 | A1 | 19730307 | BE 1972-121776 | 19720907 | <-- |
| FR 2154476 | A1 | 19730511 | FR 1972-31756 | 19720907 | <-- |
| JP 48034865 | A2 | 19730522 | JP 1972-89979 | 19720907 | <-- |
| AU 7246406 | A1 | 19740314 | AU 1972-46406 | 19720907 | <-- |
| ZA 7206109 | A | 19740424 | ZA 1972-6109 | 19720907 | <-- |
| DD 106263 | C | 19740612 | DD 1972-165511 | 19720907 | <-- |
| HU 166527 | P | 19750328 | HU 1972-WE468 | 19720907 | <-- |
| DD 114946 | C | 19750905 | DD 1972-179483 | 19720907 | <-- |
| ES 406458 | A1 | 19751001 | ES 1972-406458 | 19720907 | <-- |
| AT 7207680 | A | 19760715 | AT 1972-7680 | 19720907 | <-- |
| AT 335440 | B | 19770310 | | | |
| IL 40320 | A1 | 19761231 | IL 1972-40320 | 19720907 | <-- |
| PL 94277 | P | 19770730 | PL 1972-157635 | 19720907 | <-- |
| CH 630885 | A | 19820715 | CH 1972-13164 | 19720907 | <-- |
| GB 1414621 | A | 19751119 | GB 1972-8608 | 19721224 | <-- |
| US 3987088 | A | 19761019 | US 1973-338414 | 19730306 | <-- |
| AT 7502942 | A | 19761015 | AT 1975-2942 | 19750417 | <-- |
| AT 337169 | B | 19770610 | | | |

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| | | | | |
|---|---|---|---|---|
| AT 7502941 | A | 19761115 | AT 1975-2941 | 19750417 <-- |
| AT 337680 | B | 19770711 | | |
| FI 7600877 | A | 19760401 | FI 1976-877 | 19760401 <-- |

PRIORITY APPLN. INFO.:

| | |
|---|---|
| GB 1971-41852 | 19710908 |
| GB 1972-8608 | 19720224 |
| GB 1972-8609 | 19720224 |
| GB 1972-8610 | 19720224 |
| GB 1972-14909 | 19720329 |
| GB 1972-35818 | 19720801 |
| GB 1972-40079 | 19720829 |
| GB 1972-33939 | 19720829 |
| AT 1972-7680 | 19720907 |
| FI 1972-2465 | 19720907 |
| US 1972-287042 | 19720907 |

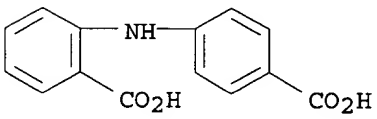
GI For diagram(s), see printed CA Issue.

AB Tricyclic compds. (I) (X = O, NR, CO) and II, were useful in the treatment and inhibition of allergies, e.g., asthma, conjunctivitis, exzema, rhinitis, etc. I and II were prepd. by std. methods, e.g., ring-closures of 2-PhCOC6H4CO2H derivs. and 2-PhC6H4CO2H derivs. and modifications of existing I- and II-type compds. Approx. 60 compds. were prepd., including I (R, R1 and X given): 2-CO2H, 6-CO2H, CO; 2-CO2H, 7-CO2H, O; 2-CO2H, H, NH; and II (R, R1 given): 2-CO2H, 7-CO2H; 2-CO2H, 7-Cl; 2-CN, 7-Ac.

IT **17332-57-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring closure of)

RN 17332-57-9 CAPLUS

CN Benzoic acid, 2-[(4-carboxyphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 48 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1973:99049 CAPLUS
DOCUMENT NUMBER: 78:99049
TITLE: 2,9-Dicarboxyquinacridone
INVENTOR(S): Ehrich, Felix Frederick; Jaffe, Edward Ephraim
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co.
SOURCE: Ger. Offen., 25 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2222177 | A | 19721116 | DE 1972-2222177 | 19720505 <-- |
| US 3726874 | A | 19730410 | US 1971-140983 | 19710506 <-- |
| US 3752817 | A | 19730814 | US 1971-140984 | 19710506 <-- |
| CA 969961 | A1 | 19750624 | CA 1972-140681 | 19720426 <-- |
| CA 996935 | A1 | 19760914 | CA 1972-140682 | 19720426 <-- |
| IT 953883 | A | 19730810 | IT 1972-23769 | 19720429 <-- |
| BE 782958 | A1 | 19721103 | BE 1972-117043 | 19720503 <-- |
| NL 7206112 | A | 19721108 | NL 1972-6112 | 19720505 <-- |
| FR 2154400 | A1 | 19730511 | FR 1972-16145 | 19720505 <-- |

| | | | | |
|---|---|---|---|---|
| GB 1342702 | A | 19740103 | GB 1972-21004 | 19720505 <-- |
| JP 49010929 | A2 | 19740130 | JP 1972-44261 | 19720506 <-- |
| CH 587316 | A | 19770429 | CH 1972-6785 | 19720508 <-- |
| US 3873548 | A | 19750325 | US 1973-338687 | 19730307 <-- |
| CA 1003840 | A2 | 19770118 | CA 1976-245459 | 19760210 <-- |

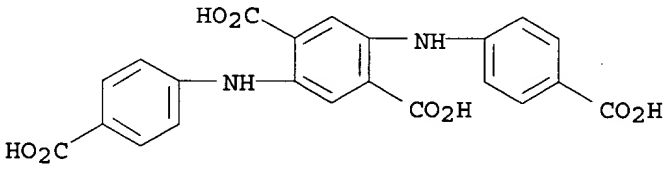
PRIORITY APPLN. INFO.: US 1971-140983 19710506
US 1971-140984 19710506
CA 1972-140682 19720426

AB 2,9-Dicarboxyquinacridone (I) [38615-36-0] was prepd. by several methods and was isolated in two polymorphic forms which were used as heat stable red pigments for mass coloration of plastics. I was prepd. by condensing dialkyl succinosuccinate (II) with 2 moles p-H2NC6H4CO2Et to give dialkyl 2,5-bis(4-carbethoxyanilino)-3,6-dihydroterephthalate (III) which was cyclized to the 6,13-dihydroquinacridone in boiling Dowtherm and then oxidized and hydrolyzed; or by condensing II with 2 moles p-H2NC6H4CO2H to give the 4-carboxy analog of III which was either oxidized and hydrolyzed and then cyclized in polyphosphoric acid or was first cyclized in boiling Dowtherm and then oxidized. I was also prepd. by the hydrolysis of 2,9-bis(trifluoromethyl)quinacridone in H2SO4. The color of a mixt. of polystyrene, TiO2, and I extruded at 320.deg. was only slightly different from that of the bluish pink color of the same mixt. extruded at 200.deg., whereas the red color of a mixt. of polystyrene, TiO2, and quinacridone extruded at 200.deg. was strongly changed by extrusion at 230.deg. and completely destroyed at 320.deg..

IT **41339-16-6P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 41339-16-6 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-carboxyphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 49 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1973:29493 CAPLUS
DOCUMENT NUMBER: 78:29493
TITLE: Pharmacologically active substituted o-aminobenzoylhydrazines
PATENT ASSIGNEE(S): Ferlux
SOURCE: Fr. Demande, 35 pp.
CODEN: FRXXBL
DOCUMENT TYPE: **Patent**
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| FR 2104930 | A1 | 19720428 | FR 1970-32533 | 19700908 <-- |
| FR 2104930 | A5 | 19720428 | | |
| FR 2104930 | B1 | 19740830 | | |
| CH 548988 | A | 19740515 | CH 1971-12903 | 19710902 <-- |

| | | | | |
|---|---|---|---|---|
| DE 2144566 | A | 19720323 | DE 1971-2144566 | 19710906 <-- |
| BE 772296 | A1 | 19720307 | BE 1971-107896 | 19710907 <-- |
| US 3814772 | A | 19740604 | US 1971-178383 | 19710907 <-- |
| NL 7112379 | A | 19720310 | NL 1971-12379 | 19710908 <-- |
| JP 48056644 | A2 | 19730809 | JP 1972-79048 | 19720807 <-- |

PRIORITY APPLN. INFO.: FR 1970-32533 19700908

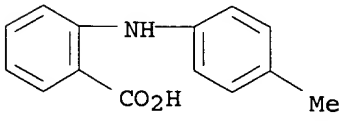
GI For diagram(s), see printed CA Issue.

AB About 40 benzoylhydrazines (I; R = substituted phenyl, aralkyl, 3-furylmethyl, Bu, substituted benzoyl; R1 = H, Cl; R2 = H, Cl; R3 = H, Me, Cl), with analgesic activities in mice, are prepd. from the corresponding N-substituted anthranilic acids. The anthranilic acids react with COCl2 to form the isatoic anhydrides II which with N2H4 give I.

IT **16524-23-5 39492-53-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with phosgene)

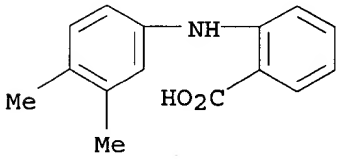
RN 16524-23-5 CAPLUS

CN Benzoic acid, 2-[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




RN 39492-53-0 CAPLUS

CN Benzoic acid, 2-[(3,4-dimethylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 50 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1972:448102 CAPLUS

DOCUMENT NUMBER: 77:48102

TITLE: N-(4-.alpha.,.alpha.-dimethylbenzylphenyl)-1-(.alpha.,.alpha.-dimethylbenzyl)-2-naphthylamine as a synthetic lubricant stabilizer

INVENTOR(S): Wheeler, Edward L.

PATENT ASSIGNEE(S): Uniroyal, Inc.

SOURCE: U.S., 9 pp. Division of U.S. 3,305,225.
CODEN: USXXAM

DOCUMENT TYPE: **Patent**

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

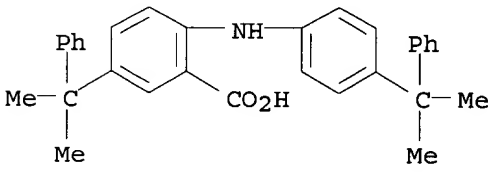
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 3649690 | A | 19720314 | US 1968-787577 | 19681227 <-- |
| US 3758519 | A | 19730911 | US 1971-163443 | 19710716 <-- |
| US 3751472 | A | 19730807 | US 1971-164144 | 19710719 <-- |

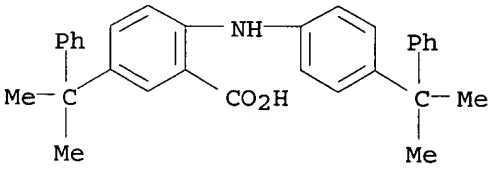
PRIORITY APPLN. INFO.: US 1966-540817 19660407
US 1968-787577 19681227

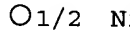
<N30/09/2003Page 75 16:36 <golam sha <mm/dd/yyyy

GI For diagram(s), see printed CA Issue.
AB Division of U.S. 3,305,225. Substituted diphenylamines I and naphthylphenylamines II, useful as antioxidants for polymers, were prepd. by alkylation and/or substitution reactions. Alkylation of Ph2NH gave I (R = R3 = PhCMe2, R1 = R2 = H) which was brominated to give I (R = R3 = PhCMe2, R1 = R2 = Br). Other I prepd. included (R, R1, R2, R3 given): Me3CCH2CMe2, H, H, Ph3C; H, Me(CH2)3CHMe, H, Ph3C; H, Me(CH2)5CHMe, H, PhCMe2. II prepd. were (R, R1 given): PhCMe2, H; PhCMe2, PhCMe2. Also prepd. was N-[p-(.alpha.,.alpha.-dimethylbenzyl)phenyl]-1-naphthylamine.
IT **17419-21-5P 17419-22-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 17419-21-5 CAPLUS
CN Benzoic acid, 5-(1-methyl-1-phenylethyl)-2-[[4-(1-methyl-1-phenylethyl)phenyl]amino]- (9CI) (CA INDEX NAME)




RN 17419-22-6 CAPLUS
CN Benzoic acid, 5-(1-methyl-1-phenylethyl)-2-[[4-(1-methyl-1-phenylethyl)phenyl]amino]-, nickel(2+) salt (2:1) (9CI) (CA INDEX NAME)




L15 ANSWER 51 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1972:72237 CAPLUS
DOCUMENT NUMBER: 76:72237
TITLE: 2-(Acylamino)-6-(arylamino)benzoic acids
INVENTOR(S): Fujimura, Hajime; Suzuki, Kenji; Asai, Masaru; Asano, Osamu
PATENT ASSIGNEE(S): Sanwa Chemical Laboratories
SOURCE: Ger. Offen., 20 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2128381 | A | 19711216 | DE 1971-2128381 | 19710608 <-- |

| | | | | |
|---|---|---|---|---|
| DE 2128381 | C3 | 19791129 | | |
| DE 2128381 | B2 | 19790405 | | |
| JP 48017267 | B4 | 19730528 | JP 1970-49666 | 19700609 <-- |
| US 3867437 | A | 19750218 | US 1971-145468 | 19710520 <-- |
| NL 7107358 | A | 19711213 | NL 1971-7358 | 19710528 <-- |
| SE 366542 | B | 19740429 | SE 1971-7336 | 19710607 <-- |
| GB 1320484 | A | 19730613 | GB 1971-19492 | 19710608 <-- |
| CH 555806 | A | 19741115 | CH 1971-8576 | 19710608 <-- |

PRIORITY APPLN. INFO.: JP 1970-49666 19700609

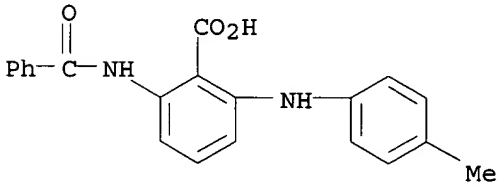
GI For diagram(s), see printed CA Issue.

AB Title compds. (I) were prepd. by reaction of N-acyl-6-haloanthranilic acids with corresponding amines RNH2 and used as purgatives. Thus, 2,6-I(BzNH)C6H3CO2H reacted with PhNH2 in aq. DMF in the presence of K2CO3 for 3 hr on a steam bath to give 80% I (R = R1 = Ph) (II). Similarly prepd. were 39 addnl. I, e.g. (R and R1 given): Ph, Me; Ph, PhCH:CH; p-MeOC6H4, p-ClC6H4; Ph, furyl; 2,3-Me2C6H3, Ph. The purgative activity of 40 I was tested in mice, e.g. ED50 of II was 23.0 mg/kg on i.p. administration and 64.0 mg/kg on oral administration. LD50 of II was 810 mg/kg on oral administration.

IT **35118-90-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 35118-90-2 CAPLUS

CN Benzoic acid, 2-(benzoylamino)-6-[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 52 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1970:43180 CAPLUS

DOCUMENT NUMBER: 72:43180

TITLE: Analgesic and antiinflammatory N-(2,3,5,6-tetrafluorophenyl)anthranilic acid derivatives

INVENTOR(S): Gittos, Maurice W.; James, John W.

PATENT ASSIGNEE(S): Aspro-Nicholas Ltd.

SOURCE: Brit., 15 pp.
CODEN: BRXXAA

DOCUMENT TYPE: **Patent**

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| GB 1166861 | | 19691015 | GB | 19660115 <-- |
| DE 1593737 | | | DE | |
| FR 6873 | | | FR | |
| US 3531493 | | 19700000 | US | <-- |

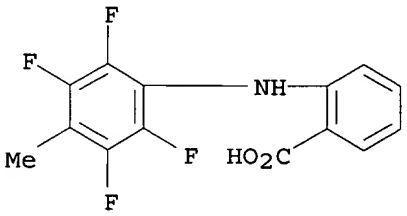
AB The title compds. (I), powerful antiinflammatory and analgesic agents, are prepd. A mixt. of 7.8 g o-ClC6H4CO2H, 5.3 g Et3N, 5.75 g 2,3,5,6-F4C6HNH2 and 1 g finely divided Cu bronze was stirred 3 hr at 90-100.degree.,

<N30/09/2003Page 77 16:36 <golam sha <mm/dd/yyyy

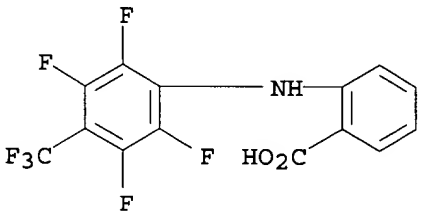
treated with 30 ml 2N HCl, filtered and processed to give I (R = CO2H) (II), m. 119-21.degree. (aq. MeOH). Refluxing a mixt. of 5 g II, 3.4 g Et2N(CH2)2Cl.HCl, 5 ml Et3N, 8.8 ml EtOH and 36 ml AcOEt 52 hr gave I (R = CO2CH2CH2N et2).HCl, m. 174-6.degree.. From 15 g II, 6.26 g SOCl2, and 50 ml C6H6 was obtained the acid chloride which with EtOH gave I (R = CO2Et), m. 100-2.degree. (aq. EtOH) . I (R = CONHNH2) (III), m. 161-6.degree. (MeOH), was prepd. by refluxing a mixt. of I (R = CO2Me), N2H4.H2O, and BuOH 3 hr. Addn. of 19.2 ml 12.5% wt/wt COCl2 in PhMe to 5.3 g III in 100 ml AcOH at 0.degree. and keeping at room temp. overnight gave 5-[o-(2,3,5,6-tetra - fluoroanilino)phenyl]-1,3,4-oxadiazol-2-one, m. 252-6.degree. (EtOH).

IT **25922-30-9 25922-31-0**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antiinflammatory activity of)

RN 25922-30-9 CAPLUS
CN Anthranilic acid, N-(2,3,5,6-tetrafluoro-p-tolyl)- (8CI) (CA INDEX NAME)




RN 25922-31-0 CAPLUS
CN Anthranilic acid, N-(.alpha.,.alpha.,.alpha.,2,3,5,6-heptafluoro-p-tolyl)- (8CI) (CA INDEX NAME)




L15 ANSWER 53 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1969:491107 CAPLUS
DOCUMENT NUMBER: 71:91107
TITLE: N-(4-Carboxyphenyl)anthranilic acids
PATENT ASSIGNEE(S): Italfarmaco S.p.A.
SOURCE: Brit., 4 pp.
CODEN: BRXXAA
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

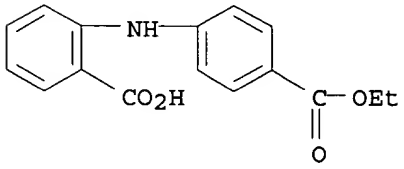
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|

GB 1158954 19690723 <--
FR 6054 FR
US 3511873 19700000 US <--
PRIORITY APPLN. INFO.: IT 19660903

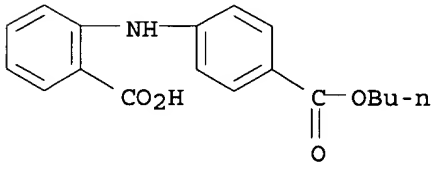
AB The title compds. o-HO2CC6H4NHC6H4CO2R-p (Ia, R = H) (I) and derivs. are prepd. by condensing an alkali metal salt of o-bromobenzoic acid with an C1-4 alkyl ester of p-aminobenzoic acid, in the presence of a proton acceptor and a Cu catalyst, in a solvent at 75-150.degree.. Thus, 15 g. o-BrC6H4CO2K, 20.76 g. p-H2NC6H4CO2Et, 0.400 g. Cu (OAc)2 and 150 ml. amyl alc. was refluxed 4 hrs. to give 5.65 g. i, m. 175.5-6.5.degree.. Similarly prepd. Ia were (R and m.p. given): Bu 119.5-20.5.degree., tert--Bu 164.5-5.5.degree..

IT **17332-29-5P 17332-31-9P 17332-32-0P**
**17332-57-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

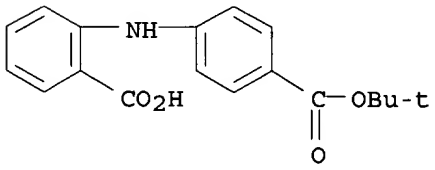
RN 17332-29-5 CAPLUS
CN Benzoic acid, 2-[[4-(ethoxycarbonyl)phenyl]amino]- (9CI) (CA INDEX NAME)



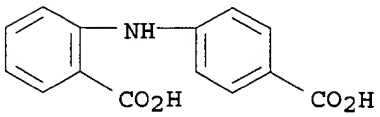
RN 17332-31-9 CAPLUS
CN Benzoic acid, 2-[[4-(butoxycarbonyl)phenyl]amino]- (9CI) (CA INDEX NAME)



RN 17332-32-0 CAPLUS
CN Benzoic acid, 2-[[4-[(1,1-dimethylethoxy)carbonyl]phenyl]amino]- (9CI) (CA INDEX NAME)



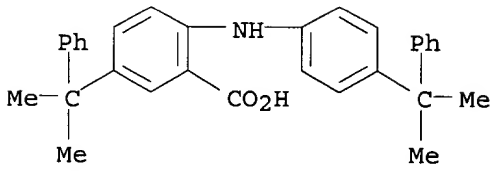
RN 17332-57-9 CAPLUS
CN Benzoic acid, 2-[(4-carboxyphenyl)amino]- (9CI) (CA INDEX NAME)



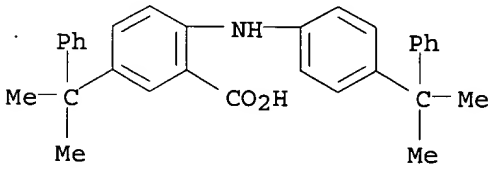

L15 ANSWER 54 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1968:418819 CAPLUS
DOCUMENT NUMBER: 69:18819
TITLE: Substituted diphenylamines for use as antioxidants in plastics and lubricants
PATENT ASSIGNEE(S): Uniroyal, Inc.
SOURCE: Brit., 18 pp.
CODEN: BRXXAA
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| GB 1112784 | | 19680508 | | | <-- |
| CA 912734 | | | CA | | |
| DE 1618020 | | | DE | | |
| FR 1513990 | | | FR | | |
| FR 1517301 | | | FR | | |
| US 3505225 | | 19700000 | US | | <-- |
| US 3666716 | | 19720000 | US | | <-- |
| US 3751472 | | 19730000 | US | | <-- |
| US 3758519 | | 19730000 | US | | <-- |
| US 3781361 | | 19730000 | US | | <-- |

PRIORITY APPLN. INFO.: US 19660407
GI For diagram(s), see printed CA Issue.
AB Derivs. of Ph2NH or phenylnaphthylamine alone or in combination with each other, or with 3,3'-thiodipropionates are prepd. for use as antioxidants in plastics and lubricants. Thus, 84.5 g. Ph2NH and 13 g. montmorillonite clay was refluxed in 100 ml. C6H6. H2O was removed by azeotropic distn. until the temp. reached 130.degree., when 124 g. .alpha.-methylstyrene was added dropwise during 20 min. The mixt. was stirred for 4 hrs. at 130-5.degree. to give 75% I(R1 = R3 = R4 = R6 = Me, R2 = R5 = Ph), m. 101-2.degree.. I, II, and III were tested as stabilizers by blending with Celcon CKX-205, unstabilized acetal polymer, on a Waring Blendor at 0.5%, heating the samples at 230.degree. for 45 min. in an open cup and detg. the % wt. loss (R1, R2, R3, R4, R5, R6, % wt. loss given): Me, Ph, Me, Me, Ph, Me, 0.92; Me, Ph, Ph, Me, Ph, Ph, 0.94; Me, neopentyl, Me, Ph, Ph, Ph, 0.84. Results for II and III were 0.74 and 0.86, resp. A control sample without stabilizer lost 31.9% and a comparative test with 4,4'-butylidenebis(6-tert-butyl-m-cresol), Santowhite, showed a loss of 2.24%. The stabilizers were used in polyethylene, polypropylene, ethylene-propylene-nonconjugated diene terpolymers, bis(2-ethylhexyl) sebacate lubricant, and acrylonitrile-butadienestyrene (when used with dilauryl 3,3'-thiodipropionate).
IT **17419-21-5 17419-22-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(as antioxidant for lubricating oils and polymers)
RN 17419-21-5 CAPLUS
CN Benzoic acid, 5-(1-methyl-1-phenylethyl)-2-[[4-(1-methyl-1-phenylethyl)phenyl]amino]- (9CI) (CA INDEX NAME)



RN 17419-22-6 CAPLUS
CN Benzoic acid, 5-(1-methyl-1-phenylethyl)-2-[[4-(1-methyl-1-phenylethyl)phenyl]amino]-, nickel(2+) salt (2:1) (9CI) (CA INDEX NAME)



O1/2 Ni(II)

L15 ANSWER 55 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1966:474002 CAPLUS
DOCUMENT NUMBER: 65:74002
ORIGINAL REFERENCE NO.: 65:13853h,13854a-d
TITLE: Quinacridone pigments
INVENTOR(S): Chen, Chung C.
PATENT ASSIGNEE(S): E. I. du Pont de Nemours & Co.
SOURCE: 5 pp.
DOCUMENT TYPE: **Patent**
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 3261836 | | 19660719 | US | 19600817 <-- |

GI For diagram(s), see printed CA Issue.
AB The title materials are obtained by heating compds. corresponding to formula I in .gtoreq.55% H2SO4 to form quinacridonesulfonic acids which are desulfonated by heating at about 200.degree. under pressure in 20-30% H2SO4 to give .gamma.-quinacridone (II) or in 40-5% H2SO4 to give .gamma.-quinacridone (III). Alternatively, ring closure can be effected in the presence of p-MeC6H4SO3H (IV). Thus, a soln. of 15 parts I (R = X = Y = H) (V) in 180 parts 96% H2SO4 was heated and stirred to 150.degree. in 30 min., held at 150.degree. for 15 min., cooled to room temp., and 210 parts H2O added slowly to reduce the H2SO4 concn. to .apprx.45%. The mixt. was sealed in glass and heated at 300.degree. for 7 hrs., cooled to room temp., opened, washed into 1000 parts H2O, filtered, and washed with dil. NaOH and H2O to yield 13.5 parts bluish red III. Similar treatment except that the H2SO4 was dild. to 25% rather than 45% gave an identical yield of red II. When 3.5 parts III was added to the 25% H2SO4 desulfonation mixt. prior to heating, the product was predominantly III.

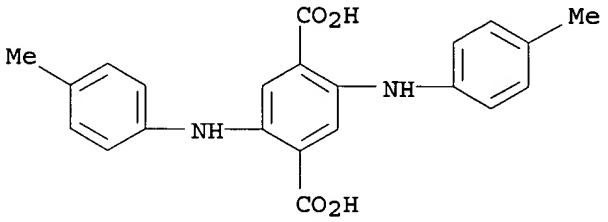
<N30/09/2003Page 81 16:36 <golam sha <mm/dd/yyyy

Alternatively, 15 parts V was heated to 145.degree. with 45 parts IV.H2O in 1 hr. and held at 145-50.degree. for 1.5 hrs. with vigorous stirring, cooled, and poured into dil. NaOH to yield 10.9 parts III. Similarly, IV.H2O 3, V 10, and 1,2,3-C6H3Cl3 160 parts were heated at 210.degree. for 3 hrs., the ppt. filtered from the hot soln., washed, and dried to yield 6.6 parts III. Substitution of 130 parts o-C6H4Cl2 gave 3.8g. III. The dihydro deriv. of I (R = Et, X = Y = H) (15 parts) was added to 110 parts 30% oleum with vigorous stirring while the temp. rose to 120.degree.. After 15 min. the mixt. was cooled in an ice bath, dild. with 50 parts H2O, the red ppt. filtered, washed with 100 parts 80% H2SO4, and desulfonated by heating at 300.degree. with 120 parts 30% H2SO4 for about 6 hrs. to yield 6.9 parts III; when 20% H2SO4 was used, 7.0 parts II was obtained. Similar results were obtained by using 180 parts of coned. H2SO4 in place of oleum. The quinacridones corresponding to I (R = Y = H, X = Cl) and (R = X = II, Y = Me) were obtained similarly.

IT **10291-28-8**, Terephthalic acid, 2,5-di-p-toluidino-
(cyclization of)

RN 10291-28-8 CAPLUS

CN 1,4-Benzenedicarboxylic acid, 2,5-bis[(4-methylphenyl)amino]- (9CI) (CA INDEX NAME)




L15 ANSWER 56 OF 56 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1960:9189 CAPLUS

DOCUMENT NUMBER: 54:9189

ORIGINAL REFERENCE NO.: 54:1877c-i,1878a-e

TITLE: Aromatic tricyanovinyl derivatives

INVENTOR(S): Heckert, Richard E.

PATENT ASSIGNEE(S): E. I. du Pont de Nemours & Co.

DOCUMENT TYPE: **Patent**

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| US 2889335 | | 19590602 | US | | <-- |
| DE 1099671 | | | DE | | |

AB A series of new, cryst., substantive dyes for natural and synthetic fibers of the general formula p-RR'-NC6H4C(CN):C(CN)2 (I), where R is H, hydrocarbon, or substituted hydrocarbon, and R' is hydrocarbon or substituted hydrocarbon, was prepd. Thus, p-Me2NC6H4CH:C(CN)2 (II) 20 and KCN 13 in 50% aq. EtOH 180 heated 3-4 min. on the steam bath with stirring, filtered, dild. with H2O 200 contg. AcOH 21 parts, and filtered yielded p-Me2NC6H4CH(CN)CH(CN)2 (III), m. 138-9.degree. (60% aq. EtOH). III 20 in AcOH 210 heated 2 hrs. with stirring at 100.degree. with Pb(OAc)4 44, dild. with AcOH 52, and cooled slowly to room temp. gave p-Me2NC6H4C-(CN):C(CN)2 (IV) 7.8 parts, dark blue needles, .lambda.max. 515 m.mu. (.epsilon. 36,200). Bz2O2 will also oxidize III to IV.

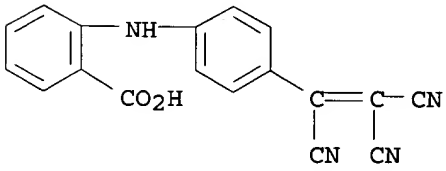
[:C-(CN).2]2 (V) 10 in tetrahydrofuran 266 treated dropwise with PhNHMe 12.8, the solvent boiled off on the steam bath, and the residue recrystd. from MeOH gave p-MeNHC6H4C(CN):C(CN)2 20 parts, bright blue solid, .epsilon.500 33,250. V 10 in dry tetrahydrofuran 178 treated with PhNMe2 19.3, refluxed on the steam bath, and evapd. gave IV 16 parts, .epsilon.515 33,750. V 50 and 2,6-Me2C6H3NH2 50, gave 3,5,4-Me2(H2N)C3H3C(CN):C(CN)2 45 parts, brilliant dark blue, m. 288-9.degree. (MeNO2), .epsilon.500 35,500. V 128 and 1-methylpyrrole 89 gave 1-methyl-2-(tricyanovinyl)pyrrole 130 parts, bright yellow, m. 182-3.degree. (EtOH), .epsilon.388 18,200. V 128 and pyrrole 67 gave 2-(tricyanovinyl)pyrrole 75 parts, yellow-orange, m. 211-13.degree. with some decompn. starting at 205.degree., .epsilon.428 25,700. MePhN(CH2)2CN 56 and V 50 gave p-Me(NCCH2CH2)NC6H4C(CN):C(CN)2 18 parts, m. 159-60.degree., .epsilon.498 30,500. V 50 and BuPhN(CH2)2CN 71 gave about 66%-pure p-Bu(NCCH2CH2)NC6H4C(CN):C(CN)2 52 parts, m. 128-9.degree., .epsilon.505 35,000 (approx.). V 50 and tetrahydroquinoline 50 gave 6-tricyanovinyl-1,2,3,4-tetrahydroquinoline 65 parts, m. 187.degree., .epsilon.525 24,300 (70% pure). Ph2NH 70 and V 50, yielded p-PhNHC6H4C(CN):C(CN)2 63 parts, m. 157-8.degree., .epsilon.512 37,000. V 50 and PhNHCH2CH2OH 55, gave p-HOCH2CH2NHC6H4C(CN):C(CN)2, red-brown, m. 162-3.degree., .epsilon.502 32,600. V 50 and PhNHCH2CH2CN 58, gave p-NCCH2CH2NHC6H4C(CN):C(CN)2 (VI), 33.5 parts, m. 131-2.degree., .epsilon.437 32,900. V 42 and o-MeC6H4NHCH2CH2CN 53, gave 3,4-Me(NCCH2CH2NH)C6H3C(CN):C(CN)2 37.8 parts, m. 161-2.degree., .epsilon.485, 30,300. V 50 and 2,6-Me2C6H3OH 48, gave 3,5,4-Me2(HO)C6H2C(CN):C(CN)2 (VII) 27 parts, black crystals, m. 184-5.degree., which on heating or exposure to air become red and finally orange; the mother liquor gave 2nd crop 47 parts; the combined black VII recrystd. twice from AcOH gave VII 25 parts, orange needles, m. 182-3.degree. (decompn.); bright yellow in dil. acid and deep burgundy in alkali, .epsilon.538 48,000 (EtOH contg. 5% Et3N), .epsilon.426 21,200 (EtOH contg. 1% AcOH). V 9.5 and PhNEt2 10 gave p-Et2NC6H4C(CN):C(CN)2, dark blue, m. 164.degree. (AcOH), .epsilon.521 46,500; it gives red dyeings on Dacron fibers and blue-red dyeings on Orlon; when boiled in an aq. dye bath of pH 4, it is 50% destroyed in 5.5 hrs. Similarly were prepd. the following I (R, R', m.p., absorption max. in Me2CO in m.mu., and mol. extinction coeff. given): HO2CCH2, H, 235-7.degree., 488, 37,100; iso-Am, H, 120-1.degree., 503, 44,400; PhCH2, H, 150-1.degree., 498, 417,500; o-HO2CC6H4, H,215-16.degree., 483, 27,400; 1-C10H7, H, 210-12.degree., 498, 36,800; ClCH2CH2, Et, 152-3.degree., 507, 43,300; NCCH2CH2, Me, 174-5.degree., 502, 40,000; NCCH2CH2, Et, 159-60.degree., 507, 42,300; NCCH2CH2, NCCH2CH2, 156.degree., 488, 37,200; NCCH2CH2, BzOCH2OCH2CH2, NCCH2CH2, 157-8.degree., 495, 40,300; Pr, Pr, 138-9.degree., 524, 47,300; Bu, Bu, 126-7.degree., 525, 47,100; PhCH2, PhCH2, 167-8.degree., 507, 44,500; BzOCH2CH2, BzOCH2CH2, 185.degree., 505, 41,700; Me, Ph, 108-9.degree., 509, 40,900; Et, Ph, 147-8.degree., 511, 43,500; C6H13, Ph, 88-9.degree., 513, 43,900; C12H25, Ph, 77-8.degree., 513, 43,400; Ph, Ph, 174-5.degree., 513, 34,600; and N-(p-tricyanovinylphenyl)morpholine, 188-9.degree., 507, 35,900; p-tricyanovinyljujolidine, 265-6.degree., 555, 47,200; bis{2-[N-methyl-4-(tricyanovinyl)anilino]ethyl} terephthalate, 284-5.degree., 519, 69,100; 3-(tricyanovinyl)indole, 275-6.degree., 453, 20,700. m-ClC6H4COCl 61 added gradually with stirring to MePhNCH2CH2OH 50 in C5H5N 150 at 50-60.degree., stirred 5 min. at 80.degree., cooled to 25.degree., treated gradually with V 44 at 25-35.degree., stirred 5 min. at 55.degree., cooled to 5.degree., treated with AcOH 250, poured with stirring into ice and H2O 2500, and filtered gave 4-Me(m-ClC6H4CO2CH2CH2)NC6H4C(CN):C(CN)2 64 parts, m. 131-6.degree.; it gave red dyeings with Orlon and Dacron fibers; .epsilon.510 40,200; only 17% dye is destroyed when refluxed 22 hrs. in a bath at pH 4. Similarly were prepd.

the following compds. p-[RCO2CH2CH2N(Me)]C6H4C(CN):C(CN)2 (R, m.p., .lambda.max. in m.mu., and mol. extinction coeff. given): EtO2C(CH2)4, 80-2.degree., 510, 41,600; Et2CH, 94-101.degree., 510, 42,600; iso-Bu, 122-5.degree., 510, 43,400; Ph, 141-2.degree., 510, 40,600; p-MeC6H4, 144-5.degree., 511, 41,600; 4,3-Me(O2N)C6H3, 153-4.degree., 510, 40,600; 1-C10H7, 179-85.degree., 512, 38,200. IV 3 in HCONMe2 50 added to Na dodecyl sulfate 10 in boiling H2O 1000 parts, heated with stirring at 90-5.degree. until a uniform dispersion is obtained, and skeins of cellulose acetate fibers soaked and stirred 15 min. in this mixt., washed, and dried gave a bright red, light-fast dyeing.

IT **101579-41-3**, Anthranilic acid, N-[p-(tricyanovinyl)phenyl]- (prepn. of)

RN 101579-41-3 CAPLUS

CN Anthranilic acid, N-[p-(tricyanovinyl)phenyl]- (6CI) (CA INDEX NAME)

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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 263.77 | 713.28 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -36.46 | -36.46 |

STN INTERNATIONAL LOGOFF AT 16:37:51 ON 30 SEP 2003